

EXHIBIT A

DIVISION OF ADULT INSTITUTIONS**MULE CREEK STATE PRISON**

4001 Highway 104
P.O. Box 409099
Ione, CA, 95640



Date: September 1, 2021

State of California Water Resources Control Board
Central Valley Regional Water Quality Control Board
Sacramento Office
11020 Sun Center Drive #200
Rancho Cordova, CA 95670-6114

Attention: Ms. Elizabeth Lee
Senior Water Resource Control Engineer

***COMMENTS TO THE NON-STORM WATER DISCHARGE REPORT; CALIFORNIA
DEPARTMENT OF CORRECTIONS AND REHABILITATION – MULE CREEK STATE
PRISON, WDID#:5S03M2000307, AMADOR COUNTY***

Dear Ms. Lee,

Enclosed please find Mule Creek State Prison's Non-Storm Water Discharge Elimination Plan and attachment B the Mule Creek State Prison Enhanced Compliance Action. This plan and attachment is provided in response to the Central Valley Regional Water Quality Control Board comments, dated 29 June, 2021.

Please contact me if you have any questions or need additional information.

A handwritten signature in blue ink, appearing to read "A. ORTA".

Anthony Orta
Correctional Plant Manager II
Mule Creek State Prison

cc: Bryan Holmes
Patrick Covello
Miles (Terry) Bettencourt
Eric Papathakis

Enclosure

NON-STORM WATER DISCHARGE ELIMINATION PLAN, CALIFORNIA
DEPARTMENT OF CORRECTIONS AND REHABILITATION – MULE CREEK STATE
PRISON, WDID#:5S03M2000307

a) Details of best management practices (BMPs) to be implemented to minimize the non-storm water discharge:

Mule Creek State Prison (MCSP) has implemented the following BMPs to minimize non-storm water discharges.

- 1 Float controlled pumps have been added to both outfalls to return any non-storm water flows to the on-site Wastewater Plant.
- 2 Flow meters have also been installed at MCSP5 and MCSP6 in order to accurately log any flow leaving the outfalls not being captured by the pumps.
- 3 Installation of a flow meter on the main irrigation water supply allowing MCSP to account for the amount of water being utilized in the irrigation system.
- 4 MCSP has adjusted the irrigation schedule for all areas from daily to three days a week for 20-23 minutes per zone in administration areas. Facility yards are not currently being irrigated, and have not been irrigated since July 1, 2021.
- 5 Flow meters are installed at MCSP5 and MCSP6 in order to log flows being pumped back to the Wastewater Treatment Plant.
- 6 A project that is currently underway is the installation of Permanent Monitoring Structures at MCSP2 and MCSP3, to accurately monitor discharge volumes to Mule Creek. This project includes the installation of flow meters at the points where the Main Outfall and Secondary Outfall discharge to Mule Creek.

b) Details of interim actions to mitigate impact of non-storm water discharges to Mule Creek (e.g., full description, explanation, and schedule of the adjustment to irrigation schedules while the irrigation system is in the process of being repaired and replaced),

MCSP has ceased all irrigation within the yards located inside the secure perimeter. The only areas currently irrigated are landscaped areas around administration buildings. This practice was implemented on July 1, 2021. Landscaped areas around administration buildings are irrigated and has been limited to 20 - 30 minutes a zone, three days a week.

MCSP staff visually inspects and photo documents MCSP 2, MCSP3, MCSP5, and MCSP6, and keeps a record of whether flow is present at each location. If MCSP5 or MCSP6 are flowing or ponding more than 72 hours after a storm event, in compliance with the Small MS4 Order, an Illicit Discharge Detection and Elimination Source Investigation work order is created, and MCSP staff investigates and identifies any potential source of non-storm water and implements any additional BMPs or repairs as necessary. Pursuant to the 13383 Order, sampling is conducted whenever discharge is observed entering Mule Creek.

c) Implementation schedule of the BMPs (both interim and permanent mitigation actions)

MCSP has currently implemented the following interim BMPs. Modifying the Main and Secondary outfalls, by installing curbs to allow for redirection of non-stormwater flows by float controlled pumps to the on-site wastewater treatment plant during the dry season. Irrigation of landscaping has been limited as described above, and adjusted based on flow meter results.

The installation of the permanent monitoring structures at MCSP2 and MCSP3 is underway. Design was completed in June, 2021. Installation is estimated to be completed in November, 2021.

Permanent Mitigation will be the installation of a new irrigation system. MCSP is currently in task 2, of the Enhanced Compliance Action (ECA), scope of work (attached), and anticipates meeting the schedule outlined in the ECA. MCSP expects this project to be completed by February, 2025.

d) Date for expected compliance with the Discharge Prohibitions in the Small MS4 General Permit.

MCSP plans to complete the Enhanced Compliance Action (ECA) by February, 2025, which encompasses the replacement of irrigation system. Additionally, the new Permanent Monitoring Structures will be installed at MCSP2 and MSCP3, with an estimated completion date of November, 2021.

Stipulated Order R5-2021-0001
Attachment B

- B-1 -

Attachment B

California Department of Corrections and Rehabilitation Mule Creek State Prison Enhanced Compliance Action (ECA) Scope of Work

Project Name:

Mule Creek State Prison, Landscape Irrigation System Replacement

Project Developed by:

California Department of Corrections and Rehabilitation (CDCR)

Project to be Performed by:

California Department of Corrections and Rehabilitation (consultant designed, constructed via a public works contract or via CDCR's day labor program)

Contact:

Miles Bettencourt, Regional Manager
9838 Old Placerville Road, Suite B
Sacramento, CA 95827
Phone: 916-255-3381
Email: Miles.Bettencourt@cdcr.ca.gov

Description of Project:

This project will replace the landscape irrigation system at Mule Creek State Prison (MCSP), which has exceeded its useful life. The existing system has breeches in several mainlines, resulting in non-storm water flow entering the MCSP storm water collection system, which eventually discharges into Mule Creek. Installing new piping for the landscape irrigation system will have the effect of eliminating non-storm water flows, resulting from irrigation, into Mule Creek.

Project Goals

The CDCR's ECA project has the follow goals:

- 1) The project is expected to eliminate non-storm water flow, resulting from landscape irrigation, from entering the storm water collection system at MCSP.
- 2) Reduction of the amount of potable water utilized in landscape irrigation

Stipulated Order R5-2021-0001
Attachment B

- B-2 -

Compliance with ECA Criteria

1. Benefit to Water Quality and Beneficial Uses

The Landscape Irrigation System replacement project will eliminate non-storm water flow from entering the MCSP storm water collection system, which ultimately discharges to Mule Creek.

2. ECA is not an Obligation of Discharger

The CDCR is not required to develop, implement, or fund the proposed ECA project by any permit, order, or local, state, or federal law.

3. No Fiscal Benefit to Regional Water Quality Control Board.

This ECA project does not provide any fiscal benefit to the RWQCB, or fund any functions, members, or staff of the RWQCB.

4. Nexus between Violation and ECA

A nexus exists between the MCSP non-storm water flows and the proposed ECA project. The landscape irrigation systems replacement project will eliminate non-storm water flow resulting from irrigation from entering Mule Creek.

5. Key Personnel Involved in ECA

The CDCR's Facility Planning, Construction and Management Division will oversee completion of the ECA.

6. Project Milestones and Budget

The overall project cost is at least a minimum of \$850,000. This project will be funded utilizing the Department's Special Repair budget allocation. The ECA project will include the following Task milestones, measured from the effective date of the Stipulated Order authorizing the ECA (ECA Effective Date).

Task 1: Retain Landscape Architect or Engineering Consultant

This Task allows for the retention of a qualified consultant to support the CDCR through design and construction of the landscape irrigation system, which will eliminate non-storm water flows from irrigation from entering Mule Creek. This task is estimated to be completed within **90 days** from the ECA Effective Date.

Task 2: Completion of Study, Survey, and Concept Plans

This Task provides for the completion of a study (Preliminary Design Report), survey and (50% design) concept plans. This Task is estimated to be completed within **270 days** from completion of Task 1.

Stipulated Order R5-2021-0001
Attachment B

- B-3 -

Task 3: Plans Specifications & Cost Estimate Package

This task will complete the design of landscape irrigation system, in accordance with the study (Task 2) and develop Plans, Specifications, and a Cost Estimate package ready for bidding. This task is estimated to be completed within **270 days** from completion of Task 2.

Task 4: Environmental Review

This task will be completed concurrently with Task 3 and will include an environmental review of the proposed improvements. This Task is estimated to be completed within **120 days** from completion of Task 2.

Task 5: Bidding and Contract Development

This Task will include bidding and development of a public works contract for the proposed ECA, and is estimated to be completed within **270 days** from completion of Task 3. (Alternatively, the project may also be constructed via day labor.)

Task 6: Construction Phase

This Task will include the installation of the new landscape irrigation system, which is estimated to be completed within **545 days** following the completion of Task 5.

The overall project is anticipated to take **1445 days**, or approximately **48 months**, from the date the Stipulated Order is adopted.

7. Reports to the Regional Water Quality Control Board

The CDCR intends to comply with quarterly reporting requirements for an ECA with a duration of greater than one year. The CDCR will also submit a final quarterly report with close-out information as required upon completion of the ECA.

8. Project Compliance with CEQA

The project will include environmental review in compliance with CEQA requirements. The environmental review requirements will be determined during the engineering study phase.

EXHIBIT B

DIVISION OF ADULT INSTITUTIONS

MULE CREEK STATE PRISON

4001 Highway 104
P.O. Box 409099
Ione, CA, 95640



May 13, 2022

State of California
Water Resources Control Board
Central Valley Regional Water Quality Control Board
Sacramento Office
11020 Sun Center Drive, #200
Rancho Cordova, CA 95670-6114

Attn: Elizabeth Lee
Senior Water Resources Control Engineer

Title and Date of Report	Non-Storm Water Discharge Elimination Plan
Contact	Elizabeth Lee (916) 464-4786
Regulatory Program	Municipal Storm Water
Order	13383
Regulated Party Name (Discharger)	CA Dept of Corrections & Rehabilitation
Facility Name	CDCR - Mule Creek State Prison
County	Amador
WDID	5S03M2000307

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of the those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Anthony Orta
Correctional Plant Manager
Mule Creek State Prison

DIVISION OF ADULT INSTITUTIONS

MULE CREEK STATE PRISON

4001 Highway 104
P.O. Box 409099
Yuba, CA, 95640



Date: May 13, 2022

State of California Water Resources Control Board
Central Valley Regional Water Quality Control Board
Sacramento Office
11020 Sun Center Drive #200
Rancho Cordova, CA 95670-6114

Attention: Ms. Elizabeth Lee
Senior Water Resource Control Engineer

***COMMENTS TO THE NON-STORM WATER DISCHARGE REPORT; CALIFORNIA
DEPARTMENT OF CORRECTIONS AND REHABILITATION - MULE CREEK STATE
PRISON, WDID#:5S03M2000307, AMADOR COUNTY***

Dear Ms. Lee,

Enclosed please find Mule Creek State Prison's Revised Non-Storm Water Discharge Elimination Plan and attachment B the Mule Creek State Prison Enhanced Compliance Action. This plan and attachment is provided in response to the Central Valley Regional Water Quality Control Board comments, dated 29 June, 2021 and comments dated 11 April, 2022.

Please contact me if you have any questions or need additional information.

A handwritten signature in blue ink, appearing to read "A. Orta".

Anthony Orta
Correctional Plant Manager II
Mule Creek State Prison

cc: Bryan Holmes
Patrick Covello
Miles (Terry) Bettencourt
Eric Papathakis
Gregor Larabee
Laurie Perri

Enclosure

NON-STORM WATER DISCHARGE ELIMINATION PLAN, CALIFORNIA
DEPARTMENT OF CORRECTIONS AND REHABILITATION - MULE CREEK STATE
PRISON, WIDID#:5S03M2000307

a) Details of best management practices (BMPs) to be implemented to minimize the non-storm water discharge:

Mule Creek State Prison (MCSP) has implemented the following BMPs to minimize non-storm water discharges.

- 1 Float controlled pumps have been added at MCSP 5 and MCSP 6 to return any non-storm water flows to the on-site Wastewater Plant. MCSP started logging flows on these pumps on June 29, 2018. Although they may have been installed before this date. The Little Giant pumps model 6EC are a non-serviceable unit, a maintenance plan has not been implemented. The pump Operation is checked daily to ensure proper operation when flow is being logged. If an issue with a pump is found MCSP replaces the pump immediately. Currently these pumps are seen as a temporary solution and have not been placed in to our Automated Maintenance Schedule. This is an interim BMP that will be removed once the Permanent Monitoring Structures are installed at MCSP 2 and MCSP 3. These pumps are controlled as followed.
 - MCSP 6 - Water depth must reach 5" in order to activate pumping. Water depth must drop below 3" in order to deactivate the pump. If water Depth exceeds 6" the closed Storm Water gates will hold back the excess water until the gates are manually opened.
 - MCSP – 5 Water depth must reach 6" in order to activate pumping. Water depth must drop below 4" in order to deactivate the pump. If water Depth exceeds 8" the closed Storm Water gates will hold back the excess water until the gates are manually opened.
- 2 Two flow meters (Grayline model AVFM5.0) per outfall have also been installed at MCSP5 and MCSP6 in order to accurately log any flow leaving the outfalls not being captured by the pumps. MCSP started logging flows on these meters on June 29, 2018. Although they may have been installed before this date. The meters operation is checked daily while logging flow. These are a non-serviceable unit with the exception of a yearly third party calibration. This is an interim BMP that will be replaced once the permanent Monitoring Structures are installed at MCSP 2 and MCSP 3.
- 3 A permanent flow meter (Badger model M2000) has been installed at the main irrigation water supply allowing MCSP to account for the amount of water being utilized in the irrigation system. This is a non-serviceable unit with the exception of a yearly third party calibration. The flow through this meter is logged daily and operation is checked daily. This Meter has been logged daily since June 29, 2018. Although it may have been installed sooner.

- 4 MCSP is currently under a statewide watering Conservation Order and has adjusted the irrigation schedule for all areas from daily to three days a week for 20-23 minutes per zone in administration areas. Facility yards are not currently being irrigated, and have not been irrigated since July 1, 2021.
- 5 A second set of temporary Flow meters are installed at MCSP 5 and MCSP 6 in order to log flows being pumped back to the Wastewater Treatment Plant. Two Badger model M2000 at each outfall, these are a non-serviceable unit with the exception of a yearly third party calibration. These flow meters are also monitored and logged daily. This is an interim BMP that will be removed once the permanent Monitoring Structures are installed at MCSP 2 and MCSP 3.
- 6 A project that is currently underway is the installation of Permanent Monitoring Structures at MCSP2 and MCSP3, to accurately monitor discharge volumes to Mule Creek. This project includes the installation of flow meters at the points where the Main Outfall and Secondary Outfall discharge to Mule Creek. This is currently scheduled for completion August 1, 2022.

b) Details of interim actions to mitigate impact of non-storm water discharges to Mule Creek (e.g., full description, explanation, and schedule of the adjustment to irrigation schedules while the irrigation system is in the process of being repaired and replaced),

MCSP is currently under a Statewide Watering Conservation Order, MCSP has ceased all irrigation within the yards located inside the secure perimeter. The only areas currently irrigated are landscaped areas around administration buildings. This practice was implemented on July 1, 2021. Landscaped areas around administration buildings are irrigated and has been limited to 20 - 30 minutes a zone, three days a week during the typical irrigation season (May-September). This was determined during a visual inspection of the irrigation system to insure adequate watering time without causing an illicit discharges. Irrigations is inspected periodically during the season to insure proper operation and make adjustment as needed.

MCSP staff visually inspects and photo documents MCSP 2, MCSP 3, MCSP 5, and MCSP 6, and keeps a record of whether flow is present at each location. If MCSP 5 or MCSP 6 are flowing or ponding more than 72 hours after a storm event, in compliance with the Small MS4 Order, an Illicit Discharge Detection and Elimination Source Investigation work order is created, and MCSP staff investigates and identifies any potential source of non-storm water and implements any additional BMP'S or repairs as necessary. Pursuant to the 13383 Order, sampling is conducted whenever discharge is observed entering Mule Creek.

c) Implementation schedule of the BMPs (both interim and permanent mitigation actions)

MCSP has currently implemented the following interim BMPs. Modifying the Main and Secondary outfalls, by installing curbs to allow for redirection of non-stormwater flows by float controlled pumps to the on-site wastewater treatment plant during the dry season. Irrigation of landscaping has been limited as described above, and adjusted based on flow meter results. These measures have been in place for some time now and monitored and logged daily since June 29, 2018.

The installation of the permanent monitoring structures at MCSP2 and MCSP3 is underway. Design was completed in June, 2021. Installation is estimated to be completed by August 1, 2022. This project has many parts from design to completion, MCSP is currently in Pre-installation excavation of the two sites.

- Design
- Material acquisition
- Pre-installation excavation of the two sites.
- Concrete form construction
- Concrete pour and wet-setting of weirs
- Electrical
- Start-up and calibration of new flow meters.

Permanent Mitigation will be the installation of a new irrigation system. MCSP is currently in task 2, of the Enhanced Compliance Action (EGA), scope of work (attached), and anticipates meeting the schedule outlined in the EGA. MCSP expects this project to be completed by February, 2025.

d) Date for expected compliance with the Discharge Prohibitions in the Small MS4 General Permit.

MCSP plans to complete the Enhanced Compliance Action (EGA) by February, 2025, which encompasses the replacement of irrigation system. Additionally, the new Permanent Monitoring Structures will be installed at MCSP2 and MSCP3, with an estimated completion date of August 1, 2022. In addition to the above listed BMP, MCSP is continuing to monitor the MS4 system in order to prevent any illicit discharges. As defects arises in the system they will be addresses immediately.

Stipulated Order RS-2021-0001

- B-1 -

Attachment B

Attachment B

**California Department of Corrections and Rehabilitation
Mule Creek State Prison
Enhanced Compliance Action (ECA)
Scope of Work**

Project Name:

Mule Creek State Prison, Landscape Irrigation System Replacement

Project Developed by:

California Department of Corrections and Rehabilitation (CDCR)

Project to be Performed by:

California Department of Corrections and Rehabilitation (consultant designed, constructed via a public works contract or via CDCR's day labor program)

Contact:

Miles Bettencourt, Regional Manager

9838 Old Placerville Road, Suite B

Sacramento, CA 95827

Phone: 916-255-3381

Email: Miles.Bettencourt@cdcr.ca.gov

Description of Project:

This project will replace the landscape irrigation system at Mule Creek State Prison (MCSP), which has exceeded its useful life. The existing system has breeches in several mainlines, resulting in non-storm water flow entering the MCSP storm water collection system, which eventually discharges into Mule Creek. Installing new piping for the landscape irrigation system will have the effect of eliminating non-storm water flows, resulting from irrigation, into Mule Creek.

Project Goals

The CDCR's ECA project has the follow goals:

- 1) The project is expected to eliminate non-storm water flow, resulting from landscape irrigation, from entering the storm water collection system at MCSP.
- 2) Reduction of the amount of potable water utilized in landscape irrigation

Compliance with ECA Criteria

1. Benefit to Water Quality and Beneficial Uses

The Landscape Irrigation System replacement project will eliminate non-storm water flow from entering the MCSP storm water collection system, which ultimately discharges to Mule Creek.

2. ECA is not an Obligation of Discharger

The CDCR is not required to develop, implement, or fund the proposed ECA project by any permit, order, or local, state, or federal law.

3. No Fiscal Benefit to Regional Water Quality Control Board.

This ECA project does not provide any fiscal benefit to the RWQCB, or fund any functions, members, or staff of the RWQCB.

4. Nexus between Violation and ECA

A nexus exists between the MCSP non-storm water flows and the proposed ECA project. The landscape irrigation systems replacement project will eliminate non-storm water flow resulting from irrigation from entering Mule Creek.

5. Key Personnel Involved in ECA

The CDCR's Facility Planning, Construction and Management Division will oversee completion of the ECA.

6. Project Milestones and Budget

The overall project cost is at least a minimum of \$850,000. This project will be funded utilizing the Department's Special Repair budget allocation. The ECA project will include the following Task milestones, measured from the effective date of the Stipulated Order authorizing the ECA (ECA Effective Date).

Task 1: Retain landscape Architect or Engineering Consultant

This Task allows for the retention of a qualified consultant to support the CDCR through design and construction of the landscape irrigation system, which will eliminate non storm water flows from irrigation from entering Mule Creek. This task is estimated to be completed within 90 days from the ECA Effective Date.

Task 2: Completion of Study, Survey, and Concept Plans

This Task provides for the completion of a study (Preliminary Design Report), survey and (50% design) concept plans. This Task is estimated to be completed within 270 days from completion of Task 1.

Stipulated Order RS-2021-0001
Attachment B

- 8-3 -

Task 3: Plans Specifications & Cost Estimate Package

This task will complete the design of landscape irrigation system, in accordance with the study (Task 2) and develop Plans, Specifications, and a Cost Estimate package ready for bidding. This task is estimated to be completed within 270 days from completion of Task 2.

Task 4: Environmental Review

This task will be completed concurrently with Task 3 and will include an environmental review of the proposed improvements. This Task is estimated to be completed within 120 days from completion of Task 2.

Task 5: Bidding and Contract Development

This Task will include bidding and development of a public works contract for the proposed ECA, and is estimated to be completed within 270 days from completion of Task 3. (Alternatively, the project may also be constructed via day labor.)

Task 6: Construction Phase

This Task will include the installation of the new landscape irrigation system, which is estimated to be completed within 545 days following the completion of Task 5.

The overall project is anticipated to take 1445 days, or approximately 48 months, from the date the Stipulated Order is adopted.

7. Reports to the Regional Water Quality Control Board

The CDCR intends to comply with quarterly reporting requirements for an ECA with a duration of greater than one year. The CDCR will also submit a final quarterly report with close-out information as required upon completion of the ECA.

8. Project Compliance with CEQA

The project will include environmental review in compliance with CEQA requirements. The environmental review requirements will be determined during the engineering study phase.

EXHIBIT C

**STATE WATER RESOURCES CONTROL BOARD
RESOLUTION NO. 2022-0006**

**ADOPT THE CLEAN WATER ACT SECTION 303(d) LIST OF IMPAIRED WATERS
FOR THE 2020-2022 CALIFORNIA INTEGRATED REPORT**

WHEREAS:

1. Section 303(d)(1) of the Clean Water Act (33 U.S.C. § 1313(d)) requires states to regularly identify surface waters that do not meet applicable water quality standards after technology-based controls have been implemented (referred to as the “303(d) list” or “303(d) list of impaired waters”) and prioritize such surface waters for the purposes of developing a total maximum daily load (“TMDL”), unless other corrective action is appropriate (40 C.F.R. § 130.7(b)). The states are required to submit their 303(d) lists by April 1 of every even-numbered year to the United States Environmental Protection Agency (“U.S. EPA”) (40 C.F.R. § 130.7(d)). In addition to the 303(d) list, the Clean Water Act requires states to report on the health of all their surface waters (referred to as the “305(b) report”).
2. The State Water Resources Control Board (“State Water Board”) combines its Clean Water Act sections 303(d) and 305(b) reporting requirements into a “California Integrated Report.”
3. Only the 303(d) list component of the California Integrated Report requires approval by the State Water Board and U.S. EPA. Neither agency approves the 305(b) report component of the California Integrated Report. Because U.S. EPA may change the State Water Board’s recommended 303(d) list, the 303(d) list is only effective upon U.S. EPA’s approval.
4. The California Integrated Report is developed in cycles. Each cycle consists primarily of assessments from three Regional Water Quality Control Boards (“Regional Water Boards”) that are “on cycle.” The other six Regional Water Boards that are “off cycle” may also assess high-priority data and make recommendations for the 303(d) list or changes to the 305(b) report. All readily available data that were submitted during the public data solicitation period and in accordance with the applicable notice of public solicitation were evaluated.
5. The State Water Board combined its reporting obligations for the 2020 and the 2022 listing cycles into one report titled the “2020-2022 California Integrated Report for Clean Water Act Sections 303(d) and 305(b),” which is available on the State Water Board’s website at https://www.waterboards.ca.gov/water_issues/programs/water_quality_assessment/2020_2022_integrated_report.html.

6. The 2020-2022 California Integrated Report revises the 2018 California Integrated Report. The statewide 303(d) list portion of the 2020-2022 Integrated Report revises “on-cycle” 303(d) listing and delisting recommendations for waterbodies within the Central Coast, Central Valley, and San Diego regions, plus “off-cycle” recommendations for several waterbodies in the Colorado River Basin region. Finally, all listing recommendations for the remaining surface waters of the state contained in the 2018 California Integrated Report carry over to the 2020-2022 California Integrated Report.
7. The Water Quality Control Policy for Developing California’s Clean Water Act Section 303(d) list (“Listing Policy”) describes the methods and the process for developing and approving the 303(d) list.
8. The State Water Board is administering the listing process for all waters assessed during the 2020-2022 listing cycle, in accordance with section 6.2 of the Listing Policy. This list will satisfy the State Water Board’s obligation to submit the list for both the 2020 cycle and the 2022 cycle in accordance with the Settlement Agreement in *Earth Law Center v. State Water Resources Control Board* (Sacramento Superior Court Case No. 34-2017-80002726).
9. On May 7, 2019, the State Water Board released the Revised Notice of Public Solicitation for the 2020-2022 California Integrated Report to interested parties to solicit data and information regarding water quality conditions in surface waters of California, pursuant to section 6.1.2.1 of the Listing Policy.
10. In developing the new 303(d) listing and delisting recommendations for the 2020-2022 Integrated Report, the State and Regional Water Boards reviewed and considered over one million rows of data and developed approximately 53,187 lines of evidence to support approximately 3,246 waterbody-pollutant decisions.
11. The public comment period for the 303(d) portion of the 2020-2022 California Integrated Report and Staff Report began on June 4, 2021, and closed at 12 noon on July 16, 2021. On July 6, 2021, prior to the close of the public comment period, the State Water Board held a hearing to receive oral comments on the proposed 303(d) list portion of the 2020-2022 California Integrated Report. In response to the written and oral comments received, the State Water Board released a Summary of Comments and Responses along with the Proposed Final 2020-2022 Integrated Report and Staff Report on December 17, 2021.
12. Upon adoption, the California Integrated Report will be submitted to U.S. EPA, which may make changes to the 303(d) list before it approves the final 303(d) list for California. Neither agency takes formal approval action on the 305(b) report, which is an informational document that characterizes the state’s general water quality conditions. Generally, the State Water Board does not solicit comments or respond to comments pertaining to the 305(b) portion of the California Integrated Report.

13. Consistent with the Listing Policy, the 303(d) list component of the 2020-2022 California Integrated Report includes recommendations to list several segments of the Pacific Ocean as impaired by pathogenic indicator bacteria due to exceedances of the shellfish harvesting water quality objective, which is expressed in total coliform density. As part of the 2019 Ocean Plan Review, the State Water Board identified, as a high priority, a future planning project to consider revising the shellfish harvesting beneficial use to distinguish between recreation, commercial, or tribal types of harvesting; and to consider revising the shellfish harvesting water quality objective in the Water Quality Control Plan for Ocean Waters of California. Should the beneficial uses or the water quality objective be revised in the future, previously assessed data will be reassessed with the new water quality objective in a subsequent listing cycle. The State Water Board expects that any Ocean waterbody segment listed as impaired by indicator bacteria for the protection of shellfish harvesting would not be scheduled for TMDL development until after the State Water Board completes the planning project. In addition, the State Water Board encourages the Regional Water Boards to use their discretion where appropriate in establishing permitting, monitoring, and other data collection requirements.
14. In 2018, the U.S. EPA published the Final Aquatic Life Ambient Water Quality Criteria for Aluminum, which includes a chronic criterion to protect aquatic life from toxic effects of aluminum. The chronic criterion is expressed as a variable aluminum concentration calculated using pH, dissolved organic carbon, and total hardness data collected from the receiving water body. Aluminum data submitted for the 2020-2022 California Integrated Report did not include total hardness or dissolved organic carbon data. Some pH data were submitted. Because it was not possible to apply the 2018 criterion, the aluminum data were initially evaluated using the 1988 U.S. EPA Ambient Water Quality Criteria for Aluminum, which includes a chronic criterion expressed as a single aluminum concentration. Following a cursory review of three Central Valley waterbodies, aluminum concentrations appear to be well below the 2018 criterion when accounting for pH, dissolved organic carbon, and hardness data available from other sources, and the 1988 criterion may not be an appropriate evaluation guideline. Therefore, aluminum data considered for the first time in the 2020-2022 California Integrated Report were evaluated but not used to make listing or delisting recommendations for the 2020-2022 303(d) list. The aluminum listing decisions associated with aluminum data first submitted for the 2020-2022 California Integrated Report and evaluated for attainment of aquatic life beneficial uses will remain as identified in the 2018 California Integrated Report to afford adequate time to gather data and for staff and stakeholders to review any proposed changes. Data will be assessed during the 2024 California Integrated Report using the 2018 criterion following additional efforts to gather and apply pH, dissolved organic carbon, and hardness data.

15. The 2020-2022 California Integrated Report recommends placing Dry Creek (Tributary to Tuolumne River at Modesto, E. Stanislaus County) for pyrethroids in Category 4b. Category 4b includes waterbodies for which at least one beneficial use is not supported, but a TMDL is not needed because another regulatory program is reasonably expected to result in attainment of the water quality standard within a reasonable, specified time frame. Pyrethroids in Dry Creek are being addressed by an enforceable regulatory program that is reasonably expected to result in attainment of the water quality standards within a reasonable, specified time frame. Pyrethroids are being addressed through the implementation of the Central Valley Regional Water Quality Control Board's Irrigated Lands Regulatory Program Waste Discharge Requirements. A management plan for pyrethroids in Dry Creek was developed in 2020 and is being implemented and monitoring is ongoing. Dry Creek is also impaired by three individual types of pyrethroid pesticides, which were inadvertently left in Category 5 (TMDL needed) when the broader pyrethroids listing was placed in Category 4b. The control efforts in place for pyrethroids in Dry Creek apply equally to the individual pyrethroid pollutants. Therefore, Decision ID 118204 for Bifenthrin, Decision ID 118217 for Cyfluthrin, and Decision ID 118219 for Cyhalothrin, Lambda should be revised from Category 5 to Category 4b, along with conforming changes to the Staff Report and associated appendices, and the Response to Comments.
16. The 303(d) list component of the 2020-2022 California Integrated Report includes recommendations to list nine waterbodies in the Sacramento River, San Joaquin River, and Delta watersheds as impaired for temperature. The temperature evaluation guidelines utilized in these assessments to interpret the narrative temperature water quality objectives are based on temperatures that support salmonids in the Pacific Northwest, including California, and have been used to support temperature assessments in the San Francisco Bay, North Coast, and Central Valley regions for numerous integrated reporting cycles approved by U.S. EPA. Should the State Water Board determine that general or regional temperature studies meet the requirements of the Listing Policy applicable to selecting an evaluation guideline to interpret the narrative temperature water quality objectives, the State Water Board may use those studies to re-assess the attainment of temperature water quality standards for waterbodies in the Sacramento River, San Joaquin River, and Delta watersheds. The Central Valley Regional Water Quality Control Board has assigned a lower priority for the TMDL development for the temperature listings. In addition, the State Water Board encourages the Regional Water Boards to use their discretion where appropriate in establishing permitting, monitoring, and other data collection requirements.
17. The State Water Board is committed to submitting the 2020-2022 Integrated Report to the U.S. EPA by April 1, 2022 in accordance with the Settlement Agreement in *Earth Law Center v. State Water Resources Control Board* (Sacramento Superior Court Case No. 34-2017-80002726). During the public comment and review period, some errors were discovered that could not be

corrected due to time constraints. These errors are related to 1) monitoring station mapping errors in the Central Valley Region; 2) assessments for pyrethroids in sediment; 3) re-assessments for Westside San Joaquin Coalition Pesticide Data, and 4) application of chloride objectives in Delta waterbodies. Errors were corrected for the waterbodies identified in comments received on the draft 2020-2022 Integrated Report. Mapping errors were corrected for waterbodies which are recommended to be either listed or delisted for the 2020-2022 303(d) list. All other errors will be corrected during the 2024 Integrated Report cycle and are identified in the Proposed Final Staff Report for reference. The State Water Board expects that any waterbody listed as impaired associated with one of these errors will not be scheduled for TMDL development until after the errors are corrected. In addition, the State Water Board encourages the Regional Water Boards to use their discretion where appropriate in establishing permitting, monitoring, and other data collection requirements.

18. The State Water is committed to improving processes applied to the Integrated Report. This includes modernization of data analysis tools that will streamline integrated report processes and increase transparency.
19. The State Water Board's approval of the 303(d) list component of the 2020-2022 Integrated Report is not a "project" subject to the California Environmental Quality Act because it has no potential to result in a "direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment." (Pub. Res. Code, § 21065.) The 303(d) list satisfies reporting requirements of the Clean Water Act and provides information for setting priorities for future actions.

THEREFORE, BE IT RESOLVED THAT:

The State Water Board:

1. Adopts the [303\(d\) list](#) for the 2020-2022 California Integrated Report. Before submitting the 2020-2022 California Integrated Report to the U.S. EPA, staff is directed to revise Decision ID 118204 for Bifenthrin, Decision ID 118217 for Cyfluthrin, and Decision ID 118219 for Cyhalothrin, Lambda for Dry Creek (Tributary to Tuolumne River at Modesto, E. Stanislaus County) from Category 5 (TMDL needed) to Category 4b (being addressed by an action other than a TMDL) and make conforming changes to the [Staff Report](#) including associated appendices, and [Response to Comments](#). Staff is also directed to make any appropriate conforming changes to the Response to Comments to be consistent with the revisions to the aluminum listings described in Finding No. 14. Staff is further directed to post the changes online and distribute the changes via list-serve email distribution.
2. Authorizes the Executive Director or designee to transmit the 2020-2022 California Integrated Report and other supporting information to the U.S. EPA.

3. Staff is directed to discuss with U.S. EPA staff the creation of a new subcategory under Category 4 for waterbodies with impaired biological populations and/or communities listed in accordance with Section 3.9 of the Listing Policy where there is insufficient data and information to determine whether pollution is also a substantial cause of the impairment.
4. Staff is further directed to discuss with U.S. EPA staff options for dealing with listings resulting from water quality standards that are likely to be more stringent than necessary to protect all applicable beneficial uses, and to report back to the State Water Board on the outcome of those discussions.

CERTIFICATION

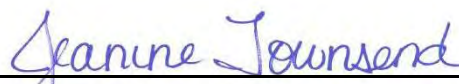
The undersigned Clerk to the Board does hereby certify that the foregoing is a full, true, and correct copy of a resolution duly and regularly approved at a meeting of the State Water Board held on January 19, 2022.

AYE: Chair E. Joaquin Esquivel
Vice Chair Dorene D'Adamo
Board Member Sean Maguire
Board Member Laurel Firestone
Board Member Nichole Morgan

NAY: None

ABSENT: None

ABSTAIN: None



Jeanine Townsend
Clerk to the Board

EXHIBIT D

Final California 2020 Integrated Report (303(d) List/305(b) Report)

Supporting Information

Regional Board 5 - Central Valley Region

Water Body Name: **Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**
 Water Body ID: **CAR5312000020080803152639**
 Water Body Type: **River & Stream**

DECISION ID 128923

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

Pollutant: **Aldicarb**
 Final Listing Decision: **Do Not List on 303(d) list (TMDL required list)**
 Last Listing Cycle's Final Listing Decision: **Do Not List on 303(d) list (TMDL required list)(2018)**
 Revision Status: **Revised**
 Impairment from Pollutant or Pollution: **Pollutant**

Regional Board Conclusion: Insufficient information is available to determine beneficial use support for this waterbody-pollutant combination with the statistical power and confidence required by the Listing Policy. Beneficial use support will be reassessed in a future cycle, if more data are available.

LOE 62842 has been replaced by LOE 221407 due to a reassessment of data using a U.S. EPA aquatic life benchmark.

Regional Board Decision Recommendation: After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list. The readily available data and information is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating.

State Board Review of Regional Board Conclusion and Recommendation:

State Board Decision Recommendation: After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

Line of Evidence (LOE) for Decision ID 128923, Aldicarb

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

LOE ID: 62848

Pollutant: Aldicarb
 LOE Subgroup: Pollutant-Water
 Matrix: Water
 Fraction: None

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 6
 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING
 Data Used to Assess Water Quality: Water Board staff assessed Ag Waiver data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 0 samples exceed the criterion for Aldicarb.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: No individual pesticide or combination of pesticides shall be present in concentrations that adversely affect beneficial uses. (Water Quality Control Plan, Central Valley Region, Sacramento River Basin and San Joaquin River Basin)

Objective/Criterion Reference: [Water Quality Control Plan for the California Regional Water Quality Control Board Central Valley Region, Sacramento and San Joaquin River Basins. 4th ed](#)

Evaluation Guideline: The Department of Public Health archived advisory level for aldicarb is 7 ug/L.

Guideline Reference: [CDPH Archived Advisory Levels for Drinking Water. Archived Advisory Levels are currently considered Notification Levels.](#)

Spatial Representation: Data for this line of evidence for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) was collected at 1 monitoring site [Dry Creek at Alta Mesa Road - 511XDCGLT]

Temporal Representation: Data was collected over the time period 2/11/2007-12/20/2007.

Environmental Conditions: Staff is not aware of any special conditions that might affect interpretation of the data.

QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

Line of Evidence (LOE) for Decision ID 128923, Aldicarb**Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

LOE ID: 221407

Pollutant: Aldicarb
 LOE Subgroup: Pollutant-Water

8/1/22, 2:24 PM

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Matrix: Water
 Fraction: Total

Beneficial Use: Cold Freshwater Habitat

Number of Samples: 6
 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality: Water Board staff assessed ILRP_SVWQC data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 6 samples exceeded the water quality threshold for Aldicarb.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: All waters shall be maintained free of toxic substances in concentrations which are toxic to, or which produce detrimental physiological responses in, human, plant, animal, or aquatic life. (Water Quality Control Plan for the Sacramento and San Joaquin River Basins).

Objective/Criterion Reference: Water Quality Control Plan for the California Regional Water Quality Control Board Central Valley Region, Sacramento and San Joaquin River Basins; Fifth Edition. Revised May 2018 (with approved amendments)

Evaluation Guideline: The evaluation guideline for Aldicarb is the USEPA Aquatic Life Benchmark of 0.46 ug/L for a fish (chronic).

Guideline Reference: [OPP Aquatic Life Benchmarks](#)

Spatial Representation: The samples were collected at 1 monitoring site (511XDCGLT)

Temporal Representation: The samples were collected between the dates of 2007-02-11 and 2007-12-20

Environmental Conditions:

QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

DECISION ID 128902

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

Pollutant: Atrazine

Final Listing Decision: Do Not List on 303(d) list (TMDL required list)

Last Listing Cycle's Final Listing Decision: Do Not List on 303(d) list (TMDL required list)(2018)

Revision Status

Revised

Impairment from Pollutant or Pollution: Pollutant

Regional Board Conclusion:

Insufficient information is available to determine beneficial use support for this waterbody-pollutant combination with the statistical power and confidence required by the Listing Policy. Beneficial use support will be reassessed in a future cycle, if

8/1/22, 2:24 PM

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more data are available.

LOE 62870 has been replaced by LOE 221420 due to a reassessment of data using a U.S. EPA aquatic life benchmark.

Regional Board Decision Recommendation: After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list. The readily available data and information is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating.

**State Board Review of
Regional Board
Conclusion and
Recommendation:**

State Board Decision Recommendation: After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

Line of Evidence (LOE) for Decision ID 128902, Atrazine **Region 5**
Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

LOE ID:	62871
Pollutant:	Atrazine
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	None
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	6
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Water Board staff assessed Ag Waiver data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 6 samples exceed the criterion for Atrazine.
Data Reference:	Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.
SWAMP Data:	Non-SWAMP
Water Quality Objective/Criterion:	The California primary maximum contaminant level for atrazine is 1 ug/L.
Objective/Criterion Reference:	Maximum Contaminant Levels for organic and inorganic chemicals. CCR Title 22
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Data for this line of evidence for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) was collected at 1

8/1/22, 2:24 PM

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monitoring site [Dry Creek at Alta Mesa Road - 511XDCGLT]
 Temporal Representation: Data was collected over the time period 2/11/2007-12/20/2007.
 Environmental Conditions: Staff is not aware of any special conditions that might affect interpretation of the data.
 QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.
 QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

Line of Evidence (LOE) for Decision ID 128902, Atrazine**Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

LOE ID: 221420

Pollutant: Atrazine
 LOE Subgroup: Pollutant-Water
 Matrix: Water
 Fraction: Total

Beneficial Use: Cold Freshwater Habitat

Number of Samples: 6
 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING
 Data Used to Assess Water Quality: Water Board staff assessed ILRP_SVWQC data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 6 samples exceeded the water quality threshold for Atrazine.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: All waters shall be maintained free of toxic substances in concentrations which are toxic to, or which produce detrimental physiological responses in, human, plant, animal, or aquatic life. (Water Quality Control Plan for the Sacramento and San Joaquin River Basins).

Objective/Criterion Reference: Water Quality Control Plan for the California Regional Water Quality Control Board Central Valley Region, Sacramento and San Joaquin River Basins; Fifth Edition. Revised May 2018 (with approved amendments)

Evaluation Guideline: The evaluation guideline for Atrazine is the USEPA Aquatic Life Benchmark of <1 ug/L for a nonvascular plant (acute).

Guideline Reference: [OPP Aquatic Life Benchmarks](#)

Spatial Representation: The samples were collected at 1 monitoring site (511XDCGLT)
 Temporal Representation: The samples were collected between the dates of 2007-02-11 and 2007-12-20

Environmental Conditions:
 QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.
 QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

DECISION ID 128911**Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)****Pollutant:** Bromacil**Final Listing Decision:** Do Not List on 303(d) list (TMDL required list)**Last Listing Cycle's Final Listing Decision:** Do Not List on 303(d) list (TMDL required list)(2018)**Revision Status**

Revised

Impairment from

Pollutant

Pollutant or Pollution:**Regional Board****Conclusion:**

Insufficient information is available to determine beneficial use support for this waterbody-pollutant combination with the statistical power and confidence required by the Listing Policy. Beneficial use support will be reassessed in a future cycle, if more data are available.

LOE 62889 has been replaced by LOE 221491 due to a reassessment of data using a U.S. EPA aquatic life benchmark.

Regional Board Decision**Recommendation:**

After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list. The readily available data and information is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating.

State Board Review of**Regional Board****Conclusion and****Recommendation:****State Board Decision****Recommendation:****Line of Evidence (LOE) for Decision ID 128911, Bromacil****Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

LOE ID: 221491

Pollutant: Bromacil

LOE Subgroup: Pollutant-Water

Matrix: Water

Fraction: Total

Beneficial Use: Cold Freshwater Habitat

Number of Samples: 6

Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality: Water Board staff assessed ILRP_SVWQC data for Dry Creek

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

(Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 6 samples exceeded the water quality threshold for Bromacil.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: All waters shall be maintained free of toxic substances in concentrations which are toxic to, or which produce detrimental physiological responses in, human, plant, animal, or aquatic life. (Water Quality Control Plan for the Sacramento and San Joaquin River Basins).

Objective/Criterion Reference: Water Quality Control Plan for the California Regional Water Quality Control Board Central Valley Region, Sacramento and San Joaquin River Basins; Fifth Edition. Revised May 2018 (with approved amendments)

Evaluation Guideline: The evaluation guideline for Bromacil is the USEPA Aquatic Life Benchmark of 6.8 ug/L for a nonvascular plant (acute).

Guideline Reference: [OPP Aquatic Life Benchmarks](#)

Spatial Representation: The samples were collected at 1 monitoring site (511XDCGLT)

Temporal Representation: The samples were collected between the dates of 2007-02-11 and 2007-12-20

Environmental Conditions:

QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

DECISION ID 128903

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

Pollutant: Dacthal

Final Listing Decision: Do Not List on 303(d) list (TMDL required list)

Last Listing Cycle's Final Listing Decision: Do Not List on 303(d) list (TMDL required list)(2018)

Revision Status

Revised

Impairment from

Pollutant

Pollutant or Pollution:

Regional Board

Conclusion:

Insufficient information is available to determine beneficial use support for this waterbody-pollutant combination with the statistical power and confidence required by the Listing Policy. Beneficial use support will be reassessed in a future cycle, if more data are available.

LOE 79450 has been replaced by LOE 221582 due to a reassessment of data using a U.S. EPA aquatic life benchmark.

Regional Board Decision Recommendation:

After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list. The readily available data and information is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating.

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

**State Board Review of
Regional Board
Conclusion and
Recommendation:**

State Board Decision Recommendation: After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

Line of Evidence (LOE) for Decision ID 128903, Dacthal **Region 5**
Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

LOE ID: 221582

Pollutant: Dacthal
LOE Subgroup: Pollutant-Water
Matrix: Water
Fraction: Total

Beneficial Use: Cold Freshwater Habitat

Number of Samples: 5
Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality: Water Board staff assessed ILRP_SVWQC data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 5 samples exceeded the water quality threshold for Dacthal.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: All waters shall be maintained free of toxic substances in concentrations which are toxic to, or which produce detrimental physiological responses in, human, plant, animal, or aquatic life. (Water Quality Control Plan for the Sacramento and San Joaquin River Basins).

Objective/Criterion Reference: Water Quality Control Plan for the California Regional Water Quality Control Board Central Valley Region, Sacramento and San Joaquin River Basins; Fifth Edition. Revised May 2018 (with approved amendments)

Evaluation Guideline: The evaluation guideline for Dacthal is the USEPA Aquatic Life Benchmark of >1100 ug/L for a nonvascular plant (acute) and vascular plant (acute). The benchmark was derived from a \"greater-than\" value (for example, > 265,000) and may overestimate toxicity."

Guideline Reference: [OPP Aquatic Life Benchmarks](#)

Spatial Representation: The samples were collected at 1 monitoring site (511XDCGLT)
Temporal Representation: The samples were collected between the dates of 2007-04-17 and 2007-12-20

Environmental Conditions:
QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

Coalition was followed.
 QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

DECISION ID 128904**Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

Pollutant: Dicofol
Final Listing Decision: Do Not List on 303(d) list (TMDL required list)
Last Listing Cycle's Final Listing Decision: Do Not List on 303(d) list (TMDL required list)(2018)
Revision Status: Revised
Impairment from Pollutant or Pollution: Pollutant

Regional Board Conclusion: Insufficient information is available to determine beneficial use support for this waterbody-pollutant combination with the statistical power and confidence required by the Listing Policy. Beneficial use support will be reassessed in a future cycle, if more data are available. LOE XX has been replaced by LOE XX due to a reassessment of data using a U.S. EPA aquatic life benchmark.

Regional Board Decision Recommendation: After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list. The readily available data and information is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating.

State Board Review of Regional Board Conclusion and Recommendation:

State Board Decision Recommendation: After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

Line of Evidence (LOE) for Decision ID 128904, Dicofol**Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

LOE ID: 221617
 Pollutant: Dicofol
 LOE Subgroup: Pollutant-Water
 Matrix: Water
 Fraction: Total
 Beneficial Use: Cold Freshwater Habitat
 Number of Samples: 6
 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

Data Used to Assess Water Quality: Water Board staff assessed ILRP_SVWQC data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 6 samples exceeded the water quality threshold for Dicofol.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: All waters shall be maintained free of toxic substances in concentrations which are toxic to, or which produce detrimental physiological responses in, human, plant, animal, or aquatic life. (Water Quality Control Plan for the Sacramento and San Joaquin River Basins).

Objective/Criterion Reference: Water Quality Control Plan for the California Regional Water Quality Control Board Central Valley Region, Sacramento and San Joaquin River Basins; Fifth Edition. Revised May 2018 (with approved amendments)

Evaluation Guideline: The evaluation guideline for Dicofol is the USEPA Aquatic Life Benchmark of 4.4 ug/L for a fish (chronic).

Guideline Reference: [OPP Aquatic Life Benchmarks](#)

Spatial Representation: The samples were collected at 1 monitoring site (511XDCGLT)

Temporal Representation: The samples were collected between the dates of 2007-02-11 and 2007-12-20

Environmental Conditions:

QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

DECISION ID 128917

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

Pollutant: Dimethoate

Final Listing Decision: Do Not List on 303(d) list (TMDL required list)

Last Listing Cycle's Final Listing Decision: Do Not List on 303(d) list (TMDL required list)(2018)

Revision Status: Revised

Impairment from Pollutant or Pollution: Pollutant

Regional Board Conclusion: Previously considered water quality data was reevaluated according to new guidelines as part of this assessment. Line of evidence #62767 was replaced by #221575.

Insufficient information is available to determine beneficial use support for this waterbody-pollutant combination with the statistical power and confidence required by the Listing Policy. Beneficial use support will be reassessed in a future cycle, if more data are available.

Regional Board Decision Recommendation: After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list. The readily available data and information is insufficient to determine, with the

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

power and confidence of the Listing Policy, the applicable beneficial use support rating.

**State Board Review of
Regional Board
Conclusion and
Recommendation:**

State Board Decision Recommendation: After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**Line of Evidence (LOE) for Decision ID 128917, Dimethoate Region 5
Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

LOE ID:	221575
Pollutant:	Dimethoate
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Cold Freshwater Habitat
Number of Samples:	6
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Water Board staff assessed ILRP_SVWQC data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 6 samples exceeded the water quality threshold for Dimethoate.
Data Reference:	Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.
SWAMP Data:	Non-SWAMP
Water Quality Objective/Criterion:	All waters shall be maintained free of toxic substances in concentrations which are toxic to, or which produce detrimental physiological responses in, human, plant, animal, or aquatic life. (Water Quality Control Plan for the Sacramento and San Joaquin River Basins).
Objective/Criterion Reference:	Water Quality Control Plan for the California Regional Water Quality Control Board Central Valley Region, Sacramento and San Joaquin River Basins; Fifth Edition. Revised May 2018 (with approved amendments)
Evaluation Guideline:	The evaluation guideline for Dimethoate is the USEPA Aquatic Life Benchmark of 0.5 ug/L for a invertebrate (acute).
Guideline Reference:	OPP Aquatic Life Benchmarks
Spatial Representation:	The samples were collected at 1 monitoring site (511XDCGLT)
Temporal Representation:	The samples were collected between the dates of 2007-02-11 and 2007-12-20
Environmental Conditions:	
QAPP Information:	The Quality Assurance Project Plan for Sacramento Valley Water Quality

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

Coalition was followed.
 QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

DECISION ID 128920 **Region 5**
Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

Pollutant: Ethoprop
Final Listing Decision: Do Not List on 303(d) list (TMDL required list)
Last Listing Cycle's Final Listing Decision: Do Not List on 303(d) list (TMDL required list)(2018)
Revision Status Revised
Impairment from Pollutant or Pollution: Pollutant

Regional Board Conclusion: Insufficient information is available to determine beneficial use support for this waterbody-pollutant combination with the statistical power and confidence required by the Listing Policy. Beneficial use support will be reassessed in a future cycle, if more data are available.

LOE 62790 has been replaced by LOE 222045 due to a reassessment of data using a U.S. EPA aquatic life benchmark.

Regional Board Decision Recommendation: After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list because applicable water quality standards are not being exceeded.

State Board Review of Regional Board Conclusion and Recommendation:

State Board Decision Recommendation: After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

Line of Evidence (LOE) for Decision ID 128920, Ethoprop **Region 5**
Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

LOE ID: 222045
 Pollutant: Ethoprop
 LOE Subgroup: Pollutant-Water
 Matrix: Water
 Fraction: Total
 Beneficial Use: Cold Freshwater Habitat
 Number of Samples: 6
 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

Data Used to Assess Water Quality: Water Board staff assessed ILRP_SVWQC data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 6 samples exceeded the water quality threshold for Ethoprop.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: All waters shall be maintained free of toxic substances in concentrations which are toxic to, or which produce detrimental physiological responses in, human, plant, animal, or aquatic life. (Water Quality Control Plan for the Sacramento and San Joaquin River Basins).

Objective/Criterion Reference: Water Quality Control Plan for the California Regional Water Quality Control Board Central Valley Region, Sacramento and San Joaquin River Basins; Fifth Edition. Revised May 2018 (with approved amendments)

Evaluation Guideline: The evaluation guideline for Ethoprop is the USEPA Aquatic Life Benchmark of 0.8 ug/L for a invertebrate (acute).

Guideline Reference: [OPP Aquatic Life Benchmarks](#)

Spatial Representation: The samples were collected at 1 monitoring site (511XDCGLT)

Temporal Representation: The samples were collected between the dates of 2007-02-11 and 2007-12-20

Environmental Conditions:

QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

DECISION ID 128905**Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

Pollutant: Glyphosate

Final Listing Decision: Do Not List on 303(d) list (TMDL required list)

Last Listing Cycle's Final Listing Decision: Do Not List on 303(d) list (TMDL required list)(2018)

Revision Status: Revised

Impairment from Pollutant or Pollution: Pollutant

Regional Board Conclusion: Insufficient information is available to determine beneficial use support for this waterbody-pollutant combination with the statistical power and confidence required by the Listing Policy. Beneficial use support will be reassessed in a future cycle, if more data are available.

LOE 62791 has been replaced by LOEs 221858 due to a reassessment of data using a U.S. EPA aquatic life benchmark.

Regional Board Decision Recommendation: After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list. The readily available data and information is insufficient to determine, with the

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

power and confidence of the Listing Policy, the applicable beneficial use support rating.

**State Board Review of
Regional Board
Conclusion and
Recommendation:**

State Board Decision Recommendation: After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

Line of Evidence (LOE) for Decision ID 128905, Glyphosate **Region 5**
Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

LOE ID: 221858

Pollutant: Glyphosate
LOE Subgroup: Pollutant-Water
Matrix: Water
Fraction: Total

Beneficial Use: Cold Freshwater Habitat

Number of Samples: 4
Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality: Water Board staff assessed ILRP_SVWQC data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 4 samples exceeded the water quality threshold for Glyphosate.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: All waters shall be maintained free of toxic substances in concentrations which are toxic to, or which produce detrimental physiological responses in, human, plant, animal, or aquatic life. (Water Quality Control Plan for the Sacramento and San Joaquin River Basins).

Objective/Criterion Reference: Water Quality Control Plan for the California Regional Water Quality Control Board Central Valley Region, Sacramento and San Joaquin River Basins; Fifth Edition. Revised May 2018 (with approved amendments)

Evaluation Guideline: The evaluation guideline for Glyphosate is the USEPA Aquatic Life Benchmark of 11900 ug/L for a vascular plant (acute).

Guideline Reference: [OPP Aquatic Life Benchmarks](#)

Spatial Representation: The samples were collected at 1 monitoring site (511XDCGLT)
Temporal Representation: The samples were collected between the dates of 2007-02-11 and 2007-12-20

Environmental Conditions:
QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

Coalition was followed.
 QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

Line of Evidence (LOE) for Decision ID 128905, Glyphosate**Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

LOE ID: 62792

Pollutant: Glyphosate
 LOE Subgroup: Pollutant-Water
 Matrix: Water
 Fraction: None

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 4

Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality: Water Board staff assessed Ag Waiver data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 4 samples exceed the criterion for Glyphosate.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: The California primary maximum contaminant level for Glyphosate is 700 ug/L.

Objective/Criterion Reference: [Maximum Contaminant Levels for organic and inorganic chemicals. CCR Title 22](#)

Evaluation Guideline:

Guideline Reference:

Spatial Representation: Data for this line of evidence for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) was collected at 1 monitoring site [Dry Creek at Alta Mesa Road - 511XDCGLT]

Temporal Representation: Data was collected over the time period 2/11/2007-12/20/2007.

Environmental Conditions: Staff is not aware of any special conditions that might affect interpretation of the data.

QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

DECISION ID 128906**Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)****Pollutant: Linuron**

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml**Final Listing Decision:** Do Not List on 303(d) list (TMDL required list)**Last Listing Cycle's Final** Do Not List on 303(d) list (TMDL required list)(2018)**Listing Decision:****Revision Status** Revised**Impairment from** Pollutant**Pollutant or Pollution:****Regional Board****Conclusion:**

Insufficient information is available to determine beneficial use support for this waterbody-pollutant combination with the statistical power and confidence required by the Listing Policy. Beneficial use support will be reassessed in a future cycle, if more data are available.

LOE 63014 has been replaced by LOE 221751 due to a reassessment of data using a U.S. EPA aquatic life benchmark.

Regional Board Decision**Recommendation:**

After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list. The readily available data and information is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating.

State Board Review of**Regional Board****Conclusion and****Recommendation:****State Board Decision****Recommendation:**

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

Line of Evidence (LOE) for Decision ID 128906, Linuron**Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

LOE ID: 221751

Pollutant: Linuron

LOE Subgroup: Pollutant-Water

Matrix: Water

Fraction: Total

Beneficial Use: Cold Freshwater Habitat

Number of Samples: 0

Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality: Water Board staff assessed ILRP_SVWQC data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support, and the results are as follows: 0 of the 0 samples exceeded the evaluation guideline for Linuron. Although a total of 6 samples were collected, 6 of these samples were not included in the assessment because the laboratory data reporting limit(s) was above the water quality threshold and therefore the results could not

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

be quantified with the level of certainty required by the Listing Policy Section 6.1.5.5.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: All waters shall be maintained free of toxic substances in concentrations which are toxic to, or which produce detrimental physiological responses in, human, plant, animal, or aquatic life. (Water Quality Control Plan for the Sacramento and San Joaquin River Basins).

Objective/Criterion Reference: Water Quality Control Plan for the California Regional Water Quality Control Board Central Valley Region, Sacramento and San Joaquin River Basins; Fifth Edition. Revised May 2018 (with approved amendments)

Evaluation Guideline: The evaluation guideline for Linuron is the USEPA Aquatic Life Benchmark of 0.09 ug/L for a invertebrate (acute).

Guideline Reference: [OPP Aquatic Life Benchmarks](#)

Spatial Representation: The samples were collected at 1 monitoring site (511XDCGLT).

Temporal Representation: Date for this waterbody was collected over the date range 2007-02-11 to 2007-12-20

Environmental Conditions:

QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

DECISION ID 128915

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

Pollutant: Methidathion

Final Listing Decision: Do Not List on 303(d) list (TMDL required list)

Last Listing Cycle's Final Listing Decision: Do Not List on 303(d) list (TMDL required list)(2018)

Revision Status

Revised

Impairment from

Pollutant

Pollutant or Pollution:

Regional Board

Conclusion:

Insufficient information is available to determine beneficial use support for this waterbody-pollutant combination with the statistical power and confidence required by the Listing Policy. Beneficial use support will be reassessed in a future cycle, if more data are available. LOE 63026 has been replaced by LOE 222056 due to a reassessment of data using a U.S. EPA aquatic life benchmark.

Regional Board Decision Recommendation: After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list. The readily available data and information is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating.

State Board Review of Regional Board

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml**Conclusion and Recommendation:**

State Board Decision Recommendation: After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

Line of Evidence (LOE) for Decision ID 128915, Methidathion**Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

LOE ID: 222056

Pollutant: Methidathion
 LOE Subgroup: Pollutant-Water
 Matrix: Water
 Fraction: Total

Beneficial Use: Cold Freshwater Habitat

Number of Samples: 6
 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING
 Data Used to Assess Water Quality: Water Board staff assessed ILRP_SVWQC data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 6 samples exceeded the water quality threshold for Methidathion.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: All waters shall be maintained free of toxic substances in concentrations which are toxic to, or which produce detrimental physiological responses in, human, plant, animal, or aquatic life. (Water Quality Control Plan for the Sacramento and San Joaquin River Basins).

Objective/Criterion Reference: Water Quality Control Plan for the California Regional Water Quality Control Board Central Valley Region, Sacramento and San Joaquin River Basins; Fifth Edition. Revised May 2018 (with approved amendments)

Evaluation Guideline: The evaluation guideline for Methidathion is the USEPA Aquatic Life Benchmark of 0.66 ug/L for a invertebrate (acute).

Guideline Reference: [OPP Aquatic Life Benchmarks](#)

Spatial Representation: The samples were collected at 1 monitoring site (511XDCGLT)
 Temporal Representation: The samples were collected between the dates of 2007-02-11 and 2007-12-20

Environmental Conditions:
 QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml**DECISION ID****128912****Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)****Pollutant:** **Methiocarb****Final Listing Decision:** **Do Not List on 303(d) list (TMDL required list)****Last Listing Cycle's Final Listing Decision:** Do Not List on 303(d) list (TMDL required list)(2018)**Revision Status**

Revised

Impairment from

Pollutant

Pollutant or Pollution:**Regional Board****Conclusion:**

Insufficient information is available to determine beneficial use support for this waterbody-pollutant combination with the statistical power and confidence required by the Listing Policy. Beneficial use support will be reassessed in a future cycle, if more data are available.

LOE 63027 has been replaced by LOE 221740 due to a reassessment of data using a U.S. EPA aquatic life benchmark.

Regional Board Decision Recommendation:

After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list. The readily available data and information is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating.

**State Board Review of
Regional Board
Conclusion and
Recommendation:**
State Board Decision Recommendation:

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

Line of Evidence (LOE) for Decision ID 128912, Methiocarb**Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

LOE ID: 221740

Pollutant: Methiocarb
LOE Subgroup: Pollutant-Water
Matrix: Water
Fraction: Total

Beneficial Use: Cold Freshwater Habitat

Number of Samples: 6
Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality: Water Board staff assessed ILRP_SVWQC data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

portion) to determine beneficial use support and results are as follows: 0 of 6 samples exceeded the water quality threshold for Methiocarb.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: All waters shall be maintained free of toxic substances in concentrations which are toxic to, or which produce detrimental physiological responses in, human, plant, animal, or aquatic life. (Water Quality Control Plan for the Sacramento and San Joaquin River Basins).

Objective/Criterion Reference: Water Quality Control Plan for the California Regional Water Quality Control Board Central Valley Region, Sacramento and San Joaquin River Basins; Fifth Edition. Revised May 2018 (with approved amendments)

Evaluation Guideline: The evaluation guideline for Methiocarb is the USEPA Aquatic Life Benchmark of 2.75 ug/L for a invertebrate (chronic).

Guideline Reference: [OPP Aquatic Life Benchmarks](#)

Spatial Representation: The samples were collected at 1 monitoring site (511XDCGLT)

Temporal Representation: The samples were collected between the dates of 2007-02-11 and 2007-12-20

Environmental Conditions:

QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

DECISION ID 128907

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

Pollutant: Molinate

Final Listing Decision: Do Not List on 303(d) list (TMDL required list)

Last Listing Cycle's Final Listing Decision: Do Not List on 303(d) list (TMDL required list)(2018)

Revision Status: Revised

Impairment from Pollutant or Pollution: Pollutant

Regional Board Conclusion: This pollutant is being considered for placement on the CWA section 303(d) List under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

Two lines of evidence are available in the administrative record to assess this pollutant. Zero of the one samples exceed the water quality criteria for MUN, and zero of the one samples exceed the evaluation guideline for COLD.

LOE 63042 has been replaced by LOE 222103 due to a reassessment of data using a U.S. EPA aquatic life benchmark.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the CWA section 303(d) List.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. Zero of the one samples exceed the water quality criteria for MUN, and zero of the one samples exceed the evaluation guideline for COLD and this sample size is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating. A minimum of 16 samples are needed to determine if a beneficial use is fully supported using table 3.1.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

Regional Board Decision Recommendation: After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list. The readily available data and information is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating.

**State Board Review of
Regional Board
Conclusion and
Recommendation:**

State Board Decision Recommendation: After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

Line of Evidence (LOE) for Decision ID 128907, Molinate

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

LOE ID: 63043

Pollutant: Molinate
LOE Subgroup: Pollutant-Water
Matrix: Water
Fraction: None

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 1
Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality: Water Board staff assessed Ag Waiver data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 1 samples exceed the criterion for Molinate.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

Water Quality Objective/Criterion: The California primary maximum contaminant level for Molinate is 20 ug/L .

Objective/Criterion Reference: [Maximum Contaminant Levels for organic and inorganic chemicals. CCR Title 22](#)

Evaluation Guideline:

Guideline Reference:

Spatial Representation: Data for this line of evidence for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) was collected at 1 monitoring site [Dry Creek at Alta Mesa Road - 511XDCGLT]

Temporal Representation: Data was collected on a single day 5/15/2007.

Environmental Conditions: Staff is not aware of any special conditions that might affect interpretation of the data.

QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

Line of Evidence (LOE) for Decision ID 128907, Molinate

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

LOE ID: 222103

Pollutant: Molinate

LOE Subgroup: Pollutant-Water

Matrix: Water

Fraction: Total

Beneficial Use: Cold Freshwater Habitat

Number of Samples: 1

Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality: Water Board staff assessed ILRP_SVWQC data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 1 samples exceeded the water quality threshold for Molinate.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: All waters shall be maintained free of toxic substances in concentrations which are toxic to, or which produce detrimental physiological responses in, human, plant, animal, or aquatic life. (Water Quality Control Plan for the Sacramento and San Joaquin River Basins).

Objective/Criterion Reference: Water Quality Control Plan for the California Regional Water Quality Control Board Central Valley Region, Sacramento and San Joaquin River Basins; Fifth Edition. Revised May 2018 (with approved amendments)

Evaluation Guideline: The California Department of Fish and Wildlife hazard assessment instantaneous criterion (1-hour average) for the protection of aquatic life

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

Guideline Reference: for Molinate is 13 ug/L.
[Hazard Assessment of the Rice Herbicides Molinate and Thiobencarb to Aquatic Organisms in the Sacramento River System. Administrative Report 90-1. California Department of Fish and Game, Environmental Services Division](#)

Spatial Representation: The samples were collected at 1 monitoring site (511XDCGLT)

Temporal Representation: The samples were collected between the dates of 2007-05-15 and 2007-05-15

Environmental Conditions:

QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

DECISION ID 128913**Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

Pollutant: Oryzalin

Final Listing Decision: Do Not List on 303(d) list (TMDL required list)

Last Listing Cycle's Final Listing Decision: Do Not List on 303(d) list (TMDL required list)(2018)

Revision Status: Revised

Impairment from Pollutant or Pollution: Pollutant

Regional Board Conclusion: Previously considered water quality data was reevaluated according to new guidelines as part of this assessment. Line of evidence #63068 was replaced by #222151.

Insufficient information is available to determine beneficial use support for this waterbody-pollutant combination with the statistical power and confidence required by the Listing Policy. Beneficial use support will be reassessed in a future cycle, if more data are available.

Regional Board Decision Recommendation: After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list. The readily available data and information is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating.

State Board Review of Regional Board Conclusion and Recommendation:

State Board Decision Recommendation: After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

Line of Evidence (LOE) for Decision ID 128913, Oryzalin**Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

LOE ID: 222151

Pollutant: Oryzalin
 LOE Subgroup: Pollutant-Water
 Matrix: Water
 Fraction: Total

Beneficial Use: Cold Freshwater Habitat

Number of Samples: 5
 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING
 Data Used to Assess Water Quality: Water Board staff assessed ILRP_SVWQC data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 5 samples exceeded the water quality threshold for Oryzalin.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: All waters shall be maintained free of toxic substances in concentrations which are toxic to, or which produce detrimental physiological responses in, human, plant, animal, or aquatic life. (Water Quality Control Plan for the Sacramento and San Joaquin River Basins).

Objective/Criterion Reference: Water Quality Control Plan for the California Regional Water Quality Control Board Central Valley Region, Sacramento and San Joaquin River Basins; Fifth Edition. Revised May 2018 (with approved amendments)

Evaluation Guideline: The evaluation guideline for Oryzalin is the USEPA Aquatic Life Benchmark of 13 ug/L for a vascular plant (acute).

Guideline Reference: [OPP Aquatic Life Benchmarks](#)

Spatial Representation: The samples were collected at 1 monitoring site (511XDCGLT)
 Temporal Representation: The samples were collected between the dates of 2007-02-11 and 2007-12-20

Environmental Conditions:
 QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

DECISION ID 128918

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

Pollutant: Oxyfluorfen
Final Listing Decision: Do Not List on 303(d) list (TMDL required list)
Last Listing Cycle's Final Listing Decision: Do Not List on 303(d) list (TMDL required list)(2018)
Revision Status: Revised
Impairment from: Pollutant

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml**Pollutant or Pollution:****Regional Board Conclusion:**

Insufficient information is available to determine beneficial use support for this waterbody-pollutant combination with the statistical power and confidence required by the Listing Policy. Beneficial use support will be reassessed in a future cycle, if more data are available.

LOE 63069 has been replaced by LOE 222222 due to a reassessment of data using a U.S. EPA aquatic life benchmark.

Regional Board Decision Recommendation:

After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list. The readily available data and information is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating.

State Board Review of Regional Board Conclusion and Recommendation:**State Board Decision Recommendation:**

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

Line of Evidence (LOE) for Decision ID 128918, Oxyfluorfen**Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

LOE ID: 222222

Pollutant: Oxyfluorfen
 LOE Subgroup: Pollutant-Water
 Matrix: Water
 Fraction: Total

Beneficial Use: Cold Freshwater Habitat

Number of Samples: 1
 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality: Water Board staff assessed ILRP_SVWQC data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 1 samples exceeded the water quality threshold for Oxyfluorfen.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: All waters shall be maintained free of toxic substances in concentrations which are toxic to, or which produce detrimental physiological responses in, human, plant, animal, or aquatic life. (Water Quality Control Plan for the Sacramento and San Joaquin River Basins).

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

Objective/Criterion Reference: Water Quality Control Plan for the California Regional Water Quality Control Board Central Valley Region, Sacramento and San Joaquin River Basins; Fifth Edition. Revised May 2018 (with approved amendments)

Evaluation Guideline: The evaluation guideline for Oxyfluorfen is the USEPA Aquatic Life Benchmark of 0.29 ug/L for a nonvascular plant (acute).

Guideline Reference: [OPP Aquatic Life Benchmarks](#)

Spatial Representation: The samples were collected at 1 monitoring site (511XDCGLT)

Temporal Representation: The samples were collected between the dates of 2007-05-15 and 2007-05-15

Environmental Conditions:

QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

DECISION ID 128921**Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

Pollutant: Pendimethalin

Final Listing Decision: Do Not List on 303(d) list (TMDL required list)

Last Listing Cycle's Final Listing Decision: Do Not List on 303(d) list (TMDL required list)(2018)

Revision Status Revised

Impairment from Pollutant or Pollution: Pollutant

Regional Board Conclusion: This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. Zero of one sample exceeds the evaluation guideline for COLD.

LOE 63082 has been replaced by LOE 222091 due to a reassessment of data using a U.S. EPA aquatic life benchmark.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. Zero of one sample exceeded the evaluation guideline for COLD and this sample size is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating. A minimum of 16 samples is needed to determine if a beneficial use is fully supported using table 3.1.

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

Regional Board Decision Recommendation: After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list. The readily available data and information is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating.

**State Board Review of
Regional Board
Conclusion and
Recommendation:**

State Board Decision Recommendation: After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

Line of Evidence (LOE) for Decision ID 128921, Pendimethalin

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

LOE ID:	222091
Pollutant:	Pendimethalin
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Cold Freshwater Habitat
Number of Samples:	1
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Water Board staff assessed ILRP_SVWQC data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 1 samples exceeded the water quality threshold for Pendimethalin.
Data Reference:	Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.
SWAMP Data:	Non-SWAMP
Water Quality Objective/Criterion:	All waters shall be maintained free of toxic substances in concentrations which are toxic to, or which produce detrimental physiological responses in, human, plant, animal, or aquatic life. (Water Quality Control Plan for the Sacramento and San Joaquin River Basins).
Objective/Criterion Reference:	Water Quality Control Plan for the California Regional Water Quality Control Board Central Valley Region, Sacramento and San Joaquin River Basins; Fifth Edition. Revised May 2018 (with approved amendments)
Evaluation Guideline:	The evaluation guideline for Pendimethalin is the USEPA Aquatic Life Benchmark of 5.2 ug/L for a nonvascular plant (acute).
Guideline Reference:	OPP Aquatic Life Benchmarks

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

Spatial Representation: The samples were collected at 1 monitoring site (511XDCGLT)
 Temporal Representation: The samples were collected between the dates of 2007-05-15 and 2007-05-15
 Environmental Conditions:
 QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.
 QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

DECISION ID 128922**Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

Pollutant: Phorate
Final Listing Decision: Do Not List on 303(d) list (TMDL required list)
Last Listing Cycle's Final Listing Decision: Do Not List on 303(d) list (TMDL required list)(2018)
Revision Status: Revised
Impairment from Pollutant or Pollution: Pollutant

Regional Board Conclusion: Insufficient information is available to determine beneficial use support for this waterbody-pollutant combination with the statistical power and confidence required by the Listing Policy. Beneficial use support will be reassessed in a future cycle, if more data are available.

LOE 63083 has been replaced by LOE 222241 due to a reassessment of data using a U.S. EPA aquatic life benchmark.

Regional Board Decision Recommendation: After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list. The readily available data and information is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating.

State Board Review of Regional Board Conclusion and Recommendation:

State Board Decision Recommendation: After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

Line of Evidence (LOE) for Decision ID 128922, Phorate**Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

LOE ID: 222241

Pollutant: Phorate
 LOE Subgroup: Pollutant-Water
 Matrix: Water

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

Fraction: Total

Beneficial Use: Cold Freshwater Habitat

Number of Samples: 6

Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality: Water Board staff assessed ILRP_SVWQC data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 6 samples exceeded the water quality threshold for Phorate.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: All waters shall be maintained free of toxic substances in concentrations which are toxic to, or which produce detrimental physiological responses in, human, plant, animal, or aquatic life. (Water Quality Control Plan for the Sacramento and San Joaquin River Basins).

Objective/Criterion Reference: Water Quality Control Plan for the California Regional Water Quality Control Board Central Valley Region, Sacramento and San Joaquin River Basins; Fifth Edition. Revised May 2018 (with approved amendments)

Evaluation Guideline: The evaluation guideline for Phorate is the USEPA Aquatic Life Benchmark of 0.21 ug/L for a invertebrate (acute).

Guideline Reference: [OPP Aquatic Life Benchmarks](#)

Spatial Representation: The samples were collected at 1 monitoring site (511XDCGLT)

Temporal Representation: The samples were collected between the dates of 2007-02-11 and 2007-12-20

Environmental Conditions:

QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

DECISION ID 128924

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

Pollutant: Phosmet

Final Listing Decision: Do Not List on 303(d) list (TMDL required list)

Last Listing Cycle's Final Listing Decision: Do Not List on 303(d) list (TMDL required list)(2018)

Revision Status: Revised

Impairment from Pollutant or Pollution: Pollutant

Regional Board Conclusion: Insufficient information is available to determine beneficial use support for this waterbody-pollutant combination with the statistical power and confidence required by the Listing Policy. Beneficial use support will be reassessed in a future cycle, if

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

more data are available. LOE 63084 has been replaced by LOE 222339 due to a reassessment of data using a U.S. EPA aquatic life benchmark

Regional Board Decision Recommendation: After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list. The readily available data and information is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating.

**State Board Review of
Regional Board
Conclusion and
Recommendation:**

**State Board Decision
Recommendation:**

Line of Evidence (LOE) for Decision ID 128924, Phosmet

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

LOE ID:	222339
Pollutant:	Phosmet
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Cold Freshwater Habitat
Number of Samples:	6
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Water Board staff assessed ILRP_SVWQC data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 6 samples exceeded the water quality threshold for Phosmet.
Data Reference:	Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.
SWAMP Data:	Non-SWAMP
Water Quality Objective/Criterion:	All waters shall be maintained free of toxic substances in concentrations which are toxic to, or which produce detrimental physiological responses in, human, plant, animal, or aquatic life. (Water Quality Control Plan for the Sacramento and San Joaquin River Basins).
Objective/Criterion Reference:	Water Quality Control Plan for the California Regional Water Quality Control Board Central Valley Region, Sacramento and San Joaquin River Basins; Fifth Edition. Revised May 2018 (with approved amendments)
Evaluation Guideline:	The evaluation guideline for Phosmet is the USEPA Aquatic Life Benchmark of 0.8 ug/L for a invertebrate (acute).
Guideline Reference:	OPP Aquatic Life Benchmarks

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

Spatial Representation: The samples were collected at 1 monitoring site (511XDCGLT)
 Temporal Representation: The samples were collected between the dates of 2007-02-11 and 2007-12-20
 Environmental Conditions:
 QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.
 QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

DECISION ID 128908**Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

Pollutant: Prometon (Prometone)
Final Listing Decision: Do Not List on 303(d) list (TMDL required list)
Last Listing Cycle's Final Listing Decision: Do Not List on 303(d) list (TMDL required list)(2018)
Revision Status: Revised
Impairment from Pollutant or Pollution: Pollutant

Regional Board Conclusion: Insufficient information is available to determine beneficial use support for this waterbody-pollutant combination with the statistical power and confidence required by the Listing Policy. Beneficial use support will be reassessed in a future cycle, if more data are available. LOE 63085 has been replaced by LOE 222115 due to a reassessment of data using a U.S. EPA aquatic life benchmark.

Regional Board Decision Recommendation: After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list. The readily available data and information is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating.

State Board Review of Regional Board Conclusion and Recommendation:

State Board Decision Recommendation: After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

Line of Evidence (LOE) for Decision ID 128908, Prometon (Prometone)**Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

LOE ID: 222115
 Pollutant: Prometon (Prometone)
 LOE Subgroup: Pollutant-Water
 Matrix: Water
 Fraction: Total

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

Beneficial Use: Cold Freshwater Habitat

Number of Samples: 6

Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality: Water Board staff assessed ILRP_SVWQC data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 6 samples exceeded the water quality threshold for Prometon.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: All waters shall be maintained free of toxic substances in concentrations which are toxic to, or which produce detrimental physiological responses in, human, plant, animal, or aquatic life. (Water Quality Control Plan for the Sacramento and San Joaquin River Basins).

Objective/Criterion Reference: Water Quality Control Plan for the California Regional Water Quality Control Board Central Valley Region, Sacramento and San Joaquin River Basins; Fifth Edition. Revised May 2018 (with approved amendments)

Evaluation Guideline: The evaluation guideline for Prometon (Prometone) is the USEPA Aquatic Life Benchmark of 98 ug/L for a nonvascular plant (acute).

Guideline Reference: [OPP Aquatic Life Benchmarks](#)

Spatial Representation: The samples were collected at 1 monitoring site (511XDCGLT)

Temporal Representation: The samples were collected between the dates of 2007-02-11 and 2007-12-20

Environmental Conditions:

QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

DECISION ID 128916

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

Pollutant: Prometryn

Final Listing Decision: Do Not List on 303(d) list (TMDL required list)

Last Listing Cycle's Final Listing Decision: Do Not List on 303(d) list (TMDL required list)(2018)

Revision Status: Revised

Impairment from Pollutant or Pollution: Pollutant

Regional Board Conclusion: Insufficient information is available to determine beneficial use support for this waterbody-pollutant combination with the statistical power and confidence required by the Listing Policy. Beneficial use support will be reassessed in a future cycle, if more data are available.

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

LOE 63097 has been replaced by LOE 222210 due to a reassessment of data using a U.S. EPA aquatic life benchmark.

Regional Board Decision Recommendation: After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list because applicable water quality standards are not being exceeded.

**State Board Review of
Regional Board
Conclusion and
Recommendation:**

State Board Decision Recommendation: After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

Line of Evidence (LOE) for Decision ID 128916, Prometryn

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

LOE ID:	222210
Pollutant:	Prometryn
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Cold Freshwater Habitat
Number of Samples:	6
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Water Board staff assessed ILRP_SVWQC data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 6 samples exceeded the water quality threshold for Prometryn.
Data Reference:	Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.
SWAMP Data:	Non-SWAMP
Water Quality Objective/Criterion:	All waters shall be maintained free of toxic substances in concentrations which are toxic to, or which produce detrimental physiological responses in, human, plant, animal, or aquatic life. (Water Quality Control Plan for the Sacramento and San Joaquin River Basins).
Objective/Criterion Reference:	Water Quality Control Plan for the California Regional Water Quality Control Board Central Valley Region, Sacramento and San Joaquin River Basins; Fifth Edition. Revised May 2018 (with approved amendments)
Evaluation Guideline:	The evaluation guideline for Prometryn is the USEPA Aquatic Life Benchmark of 1.04 ug/L for a nonvascular plant (acute).
Guideline Reference:	OPP Aquatic Life Benchmarks
Spatial Representation:	The samples were collected at 1 monitoring site (511XDCGLT)

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

Temporal Representation: The samples were collected between the dates of 2007-02-11 and 2007-12-20

Environmental Conditions:

QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

DECISION ID 128919

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

Pollutant: Propargite

Final Listing Decision: Do Not List on 303(d) list (TMDL required list)

Last Listing Cycle's Final Listing Decision: Do Not List on 303(d) list (TMDL required list)(2018)

Revision Status Revised

Impairment from Pollutant or Pollution: Pollutant

Regional Board Conclusion: This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. Zero of the one samples exceed the evaluation guideline.

LOE 63098 has been replaced by LOE 222320 due to a reassessment of data using a U.S. EPA aquatic life benchmark.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. Zero of the one samples exceed the evaluation guideline and this sample size is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating. A minimum of 16 samples are needed to determine if a beneficial use is fully supported using table 3.1.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

Regional Board Decision Recommendation: After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list. The readily available data and information is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating.

State Board Review of

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

**Regional Board
Conclusion and
Recommendation:**

State Board Decision Recommendation: After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

Line of Evidence (LOE) for Decision ID 128919, Propargite **Region 5**
Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

LOE ID: 222320

Pollutant: Propargite
LOE Subgroup: Pollutant-Water
Matrix: Water
Fraction: Total

Beneficial Use: Cold Freshwater Habitat

Number of Samples: 1
Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality: Water Board staff assessed ILRP_SVWQC data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 1 samples exceeded the water quality threshold for Propargite.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: All waters shall be maintained free of toxic substances in concentrations which are toxic to, or which produce detrimental physiological responses in, human, plant, animal, or aquatic life. (Water Quality Control Plan for the Sacramento and San Joaquin River Basins).

Objective/Criterion Reference: Water Quality Control Plan for the California Regional Water Quality Control Board Central Valley Region, Sacramento and San Joaquin River Basins; Fifth Edition. Revised May 2018 (with approved amendments)

Evaluation Guideline: The evaluation guideline for Propargite is the USEPA Aquatic Life Benchmark of 7 ug/L for a invertebrate (chronic).

Guideline Reference: [OPP Aquatic Life Benchmarks](#)

Spatial Representation: The samples were collected at 1 monitoring site (511XDCGLT)
Temporal Representation: The samples were collected between the dates of 2007-05-15 and 2007-05-15

Environmental Conditions:
QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml**DECISION ID** 128925**Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

Pollutant: Propazine
Final Listing Decision: Do Not List on 303(d) list (TMDL required list)
Last Listing Cycle's Final Listing Decision: Do Not List on 303(d) list (TMDL required list)(2018)
Revision Status: Revised
Impairment from Pollutant or Pollution: Pollutant

Regional Board Conclusion: Insufficient information is available to determine beneficial use support for this waterbody-pollutant combination with the statistical power and confidence required by the Listing Policy. Beneficial use support will be reassessed in a future cycle, if more data are available.

LOE 63099 has been replaced by LOE 222387 due to a reassessment of data using a U.S. EPA aquatic life benchmark.

Regional Board Decision Recommendation: After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list. The readily available data and information is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating.

State Board Review of Regional Board Conclusion and Recommendation:

State Board Decision Recommendation: After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

Line of Evidence (LOE) for Decision ID 128925, Propazine**Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

LOE ID: 222387

Pollutant: Propazine
LOE Subgroup: Pollutant-Water
Matrix: Water
Fraction: Total

Beneficial Use: Cold Freshwater Habitat

Number of Samples: 6
Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality: Water Board staff assessed ILRP_SVWQC data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

portion) to determine beneficial use support and results are as follows: 0 of 6 samples exceeded the water quality threshold for Propazine.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: All waters shall be maintained free of toxic substances in concentrations which are toxic to, or which produce detrimental physiological responses in, human, plant, animal, or aquatic life. (Water Quality Control Plan for the Sacramento and San Joaquin River Basins).

Objective/Criterion Reference: Water Quality Control Plan for the California Regional Water Quality Control Board Central Valley Region, Sacramento and San Joaquin River Basins; Fifth Edition. Revised May 2018 (with approved amendments)

Evaluation Guideline: The evaluation guideline for Propazine is the USEPA Aquatic Life Benchmark of 24.8 ug/L for a nonvascular plant (acute).

Guideline Reference: [OPP Aquatic Life Benchmarks](#)

Spatial Representation: The samples were collected at 1 monitoring site (511XDCGLT)

Temporal Representation: The samples were collected between the dates of 2007-02-11 and 2007-12-20

Environmental Conditions:

QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

DECISION ID 128909**Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

Pollutant: Simazine

Final Listing Decision: Do Not List on 303(d) list (TMDL required list)

Last Listing Cycle's Final Listing Decision: Do Not List on 303(d) list (TMDL required list)(2018)

Revision Status: Revised

Impairment from Pollutant or Pollution: Pollutant

Regional Board Conclusion: Insufficient information is available to determine beneficial use support for this waterbody-pollutant combination with the statistical power and confidence required by the Listing Policy. Beneficial use support will be reassessed in a future cycle, if more data are available.

LOE 63115 has been replaced by LOE 222433 due to a reassessment of data using a U.S. EPA aquatic life benchmark.

Regional Board Decision Recommendation: After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list because applicable water quality standards are not being exceeded.

State Board Review of Regional Board

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml**Conclusion and Recommendation:**

State Board Decision Recommendation: After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

Line of Evidence (LOE) for Decision ID 128909, Simazine**Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

LOE ID: 222433

Pollutant: Simazine
 LOE Subgroup: Pollutant-Water
 Matrix: Water
 Fraction: Total

Beneficial Use: Cold Freshwater Habitat

Number of Samples: 6
 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING
 Data Used to Assess Water Quality: Water Board staff assessed ILRP_SVWQC data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 6 samples exceeded the water quality threshold for Simazine.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: All waters shall be maintained free of toxic substances in concentrations which are toxic to, or which produce detrimental physiological responses in, human, plant, animal, or aquatic life. (Water Quality Control Plan for the Sacramento and San Joaquin River Basins).

Objective/Criterion Reference: Water Quality Control Plan for the California Regional Water Quality Control Board Central Valley Region, Sacramento and San Joaquin River Basins; Fifth Edition. Revised May 2018 (with approved amendments)

Evaluation Guideline: The evaluation guideline for Simazine is the USEPA Aquatic Life Benchmark of 6 ug/L for a nonvascular plant (acute).

Guideline Reference: [OPP Aquatic Life Benchmarks](#)

Spatial Representation: The samples were collected at 1 monitoring site (511XDCGLT)
 Temporal Representation: The samples were collected between the dates of 2007-02-11 and 2007-12-20

Environmental Conditions:
 QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml**Line of Evidence (LOE) for Decision ID 128909, Simazine****Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

LOE ID: 63116

Pollutant: Simazine
 LOE Subgroup: Pollutant-Water
 Matrix: Water
 Fraction: None

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 6
 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING
 Data Used to Assess Water Quality: Water Board staff assessed Ag Waiver data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 6 samples exceed the criterion for Simazine.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: The California primary maximum contaminant level for Simazine is 4 ug/L.

Objective/Criterion Reference: [Maximum Contaminant Levels for organic and inorganic chemicals, CCR Title 22](#)

Evaluation Guideline:
 Guideline Reference:

Spatial Representation: Data for this line of evidence for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) was collected at 1 monitoring site [Dry Creek at Alta Mesa Road - 511XDCGLT]

Temporal Representation: Data was collected over the time period 2/11/2007-12/20/2007.

Environmental Conditions: Staff is not aware of any special conditions that might affect interpretation of the data.

QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

DECISION ID 128914**Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

Pollutant: Tebuthiuron
Final Listing Decision: Do Not List on 303(d) list (TMDL required list)
Last Listing Cycle's Final Listing Decision: Do Not List on 303(d) list (TMDL required list)(2018)
Revision Status: Revised

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

**Impairment from
Pollutant or Pollution:** Pollutant

**Regional Board
Conclusion:** Insufficient information is available to determine beneficial use support for this waterbody-pollutant combination with the statistical power and confidence required by the Listing Policy. Beneficial use support will be reassessed in a future cycle, if more data are available. LOE 63128 has been replaced by LOE 222503 due to a reassessment of data using a U.S. EPA aquatic life benchmark.

**Regional Board Decision
Recommendation:** After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list. The readily available data and information is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating.

**State Board Review of
Regional Board
Conclusion and
Recommendation:**

**State Board Decision
Recommendation:**

Line of Evidence (LOE) for Decision ID 128914, Tebuthiuron

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

LOE ID: 222503

Pollutant: Tebuthiuron
LOE Subgroup: Pollutant-Water
Matrix: Water
Fraction: Total

Beneficial Use: Cold Freshwater Habitat

Number of Samples: 6
Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality: Water Board staff assessed ILRP_SVWQC data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 6 samples exceeded the water quality threshold for Tebuthiuron.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: All waters shall be maintained free of toxic substances in concentrations which are toxic to, or which produce detrimental physiological responses in, human, plant, animal, or aquatic life. (Water Quality Control Plan for the Sacramento and San Joaquin River Basins).

Objective/Criterion Reference: Water Quality Control Plan for the California Regional Water Quality

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

Control Board Central Valley Region, Sacramento and San Joaquin River Basins; Fifth Edition. Revised May 2018 (with approved amendments)

Evaluation Guideline: The evaluation guideline for Tebuthiuron is the USEPA Aquatic Life Benchmark of 50 ug/L for a nonvascular plant (acute).

Guideline Reference: [OPP Aquatic Life Benchmarks](#)

Spatial Representation: The samples were collected at 1 monitoring site (511XDCGLT)

Temporal Representation: The samples were collected between the dates of 2007-02-11 and 2007-12-20

Environmental Conditions:

QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

DECISION ID 128926**Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

Pollutant: Thiobencarb

Final Listing Decision: Do Not List on 303(d) list (TMDL required list)

Last Listing Cycle's Final Decision: New Decision

Listing Decision:

Revision Status: Revised

Impairment from Pollutant or Pollution: Pollutant

Regional Board Conclusion: Insufficient information is available to determine beneficial use support for this waterbody-pollutant combination with the statistical power and confidence required by the Listing Policy. Beneficial use support will be reassessed in a future cycle, if more data are available.

Regional Board Decision Recommendation: After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list. The readily available data and information is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating.

State Board Review of Regional Board Conclusion and Recommendation:

State Board Decision Recommendation: After review of the available data and information, SWRCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list because it cannot be determined if applicable water quality standards are not being exceeded.

Line of Evidence (LOE) for Decision ID 128926, Thiobencarb**Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

LOE ID: 222466

Pollutant: Thiobencarb
 LOE Subgroup: Pollutant-Water
 Matrix: Water
 Fraction: Total

Beneficial Use: Cold Freshwater Habitat

Number of Samples: 1
 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality: Water Board staff assessed ILRP_SVWQC data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 1 samples exceeded the water quality threshold for Thiobencarb.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: All waters shall be maintained free of toxic substances in concentrations which are toxic to, or which produce detrimental physiological responses in, human, plant, animal, or aquatic life. (Water Quality Control Plan for the Sacramento and San Joaquin River Basins).

Objective/Criterion Reference: Water Quality Control Plan for the California Regional Water Quality Control Board Central Valley Region, Sacramento and San Joaquin River Basins; Fifth Edition. Revised May 2018 (with approved amendments)

Evaluation Guideline: The evaluation guideline for Thiobencarb is the USEPA Aquatic Life Benchmark of 1 ug/L for a invertebrate (acute).

Guideline Reference: [OPP Aquatic Life Benchmarks](#)

Spatial Representation: The samples were collected at 1 monitoring site (511XDCGLT)

Temporal Representation: The samples were collected between the dates of 2007-05-15 and 2007-05-15

Environmental Conditions:

QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

DECISION ID 128910

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

Pollutant: Trifluralin

Final Listing Decision: Do Not List on 303(d) list (TMDL required list)

Last Listing Cycle's Final Listing Decision: Do Not List on 303(d) list (TMDL required list)(2018)

Listing Decision:

Revision Status Revised

Impairment from Pollutant

Pollutant or Pollution:

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml**Regional Board
Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. Zero of one sample exceeds the evaluation guideline for COLD.

LOE 62914 has been replaced by LOE 222546 due to a reassessment of data using a U.S. EPA aquatic life benchmark.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. Zero of one sample exceeded the evaluation guideline for COLD and this sample size is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating. A minimum of 16 samples is needed to determine if a beneficial use is fully supported using table 3.1.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**Regional Board Decision
Recommendation:**

After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list. The readily available data and information is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating.

**State Board Review of
Regional Board
Conclusion and
Recommendation:****State Board Decision
Recommendation:**

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

Line of Evidence (LOE) for Decision ID 128910, Trifluralin**Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

LOE ID: 222546

Pollutant: Trifluralin
LOE Subgroup: Pollutant-Water
Matrix: Water
Fraction: Total

Beneficial Use: Cold Freshwater Habitat

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

Number of Samples: 1
 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING
 Data Used to Assess Water Quality: Water Board staff assessed ILRP_SVWQC data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 1 samples exceeded the water quality threshold for Trifluralin.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: All waters shall be maintained free of toxic substances in concentrations which are toxic to, or which produce detrimental physiological responses in, human, plant, animal, or aquatic life. (Water Quality Control Plan for the Sacramento and San Joaquin River Basins).

Objective/Criterion Reference: Water Quality Control Plan for the California Regional Water Quality Control Board Central Valley Region, Sacramento and San Joaquin River Basins; Fifth Edition. Revised May 2018 (with approved amendments)

Evaluation Guideline: The evaluation guideline for Trifluralin is the USEPA Aquatic Life Benchmark of 1.9 ug/L for a fish (chronic).

Guideline Reference: [OPP Aquatic Life Benchmarks](#)

Spatial Representation: The samples were collected at 1 monitoring site (511XDCGLT)
 Temporal Representation: The samples were collected between the dates of 2007-05-15 and 2007-05-15

Environmental Conditions:
 QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

DECISION ID 100128

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

Pollutant: Aldrin
Final Listing Decision: Do Not List on 303(d) list (TMDL required list)
Last Listing Cycle's Final Listing Decision: Do Not List on 303(d) list (TMDL required list)(2016)
Revision Status: Original
Impairment from Pollutant or Pollution: Pollutant

Regional Board Conclusion: This pollutant is being considered for placement on the CWA section 303(d) List under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

Three lines of evidence are available in the administrative record to assess this pollutant. Zero of six samples exceed the criterion maximum concentration to protect aquatic life in freshwater (CTR, 2000) for COLD, and zero of zero samples

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

exceed the criterion to protect human health from consumption of water and organisms (CTR, 2000) for COMM, and zero of zero samples exceed the CTR objective to protect human health from the consumption of water and organisms for MUN.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the CWA section 303(d) List.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. Zero of six samples exceed the criterion maximum concentration to protect aquatic life in freshwater (CTR, 2000) for COLD, and zero of zero samples exceed the criterion to protect human health from consumption of water and organisms (CTR, 2000) for COMM, and zero of zero samples exceed the CTR objective to protect human health from the consumption of water and organisms for MUN and this sample size is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating. A minimum of 16 samples are needed to determine if a beneficial use is fully supported using table 3.1.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

Regional Board Decision Recommendation: After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list. The readily available data and information is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating.

**State Board Review of
Regional Board
Conclusion and
Recommendation:**

State Board Decision Recommendation: After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

Line of Evidence (LOE) for Decision ID 100128, Aldrin **Region 5**
Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

LOE ID:	62851
Pollutant:	Aldrin
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	None
Beneficial Use:	Cold Freshwater Habitat

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

Number of Samples: 6
 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality: Water Board staff assessed Ag Waiver data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 6 samples exceed the criterion for Aldrin.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: The criterion maximum concentration to protect aquatic life in freshwater for aldrin is 1.5 ug/L (California Toxics Rule, 2000).

Objective/Criterion Reference: [Code of Federal Regulations 40 part 131.38 Establishment of numeric criteria for priority toxic pollutants for the State of California. 7/1/2011 Edition](#)

Evaluation Guideline:

Guideline Reference:

Spatial Representation: Data for this line of evidence for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) was collected at 1 monitoring site [Dry Creek at Alta Mesa Road - 511XDCGLT]

Temporal Representation: Data was collected over the time period 2/11/2007-12/20/2007.

Environmental Conditions: Staff is not aware of any special conditions that might affect interpretation of the data.

QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

Line of Evidence (LOE) for Decision ID 100128, Aldrin

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

LOE ID: 62850

Pollutant: Aldrin
 LOE Subgroup: Pollutant-Water
 Matrix: Water
 Fraction: None

Beneficial Use: Commercial or recreational collection of fish, shellfish, or organisms

Number of Samples: 0
 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality: Water Board staff assessed Ag Waiver data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 0 samples exceed the criterion for Aldrin. Six samples were not used in the assessment because the laboratory data reporting limit(s) was above the

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

objective and therefore the results could not be quantified with the level of certainty required by the Listing Policy.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: The criterion to protect human health from consumption of water and organisms for aldrin is 0.00014 ug/L (California Toxics Rule, 2000).

Objective/Criterion Reference: [Code of Federal Regulations 40 part 131.38 Establishment of numeric criteria for priority toxic pollutants for the State of California. 7/1/2011 Edition](#)

Evaluation Guideline:

Guideline Reference:

Spatial Representation: Data for this line of evidence for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) was collected at 1 monitoring site [Dry Creek at Alta Mesa Road - 511XDCGLT]

Temporal Representation: Data was collected over the time period 2/11/2007-12/20/2007.

Environmental Conditions: Staff is not aware of any special conditions that might affect interpretation of the data.

QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

Line of Evidence (LOE) for Decision ID 100128, Aldrin**Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

LOE ID: 62849

Pollutant: Aldrin

LOE Subgroup: Pollutant-Water

Matrix: Water

Fraction: None

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 0

Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality: Water Board staff assessed Ag Waiver data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 0 samples exceed the criterion for Aldrin. Six samples were not used in the assessment because the laboratory data reporting limit(s) was above the objective and therefore the results could not be quantified with the level of certainty required by the Listing Policy.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

Water Quality Objective/Criterion: The CTR objective for aldrin to protect human health from the consumption of water and organisms is 0.00013 ug/L.

Objective/Criterion Reference: [Code of Federal Regulations 40 part 131.38 Establishment of numeric criteria for priority toxic pollutants for the State of California, 7/1/2011 Edition](#)

Evaluation Guideline:
Guideline Reference:

Spatial Representation: Data for this line of evidence for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) was collected at 1 monitoring site [Dry Creek at Alta Mesa Road - 511XDCGLT]

Temporal Representation: Data was collected over the time period 2/11/2007-12/20/2007.

Environmental Conditions: Staff is not aware of any special conditions that might affect interpretation of the data.

QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

DECISION ID 100084

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

Pollutant: Aluminum

Final Listing Decision: Do Not List on 303(d) list (TMDL required list)

Last Listing Cycle's Final Listing Decision: Do Not List on 303(d) list (TMDL required list)(2016)

Revision Status

Original

Impairment from

Pollutant

Pollutant or Pollution:

Regional Board Conclusion:

This pollutant is being considered for placement on the CWA section 303(d) List under section 3.1 of the Listing Policy. Under section 3.1, a single line of evidence are necessary to assess listing status.

Two lines of evidence are available in the administrative record to assess this pollutant. Zero of two samples exceed the evaluation guideline for COLD and zero of two samples exceed the water quality objective for MUN.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the CWA section 303(d) List.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. Zero of two samples exceed the evaluation guideline for COLD and zero of two samples exceed the water quality objective for MUN and this sample size is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating. A minimum of 16 samples is needed to

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

determine if a beneficial use is fully supported using table 3.1.

4. Pursuant to Section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

Regional Board Decision Recommendation: After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list. The readily available data and information is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating.

State Board Review of Regional Board Conclusion and Recommendation:

State Board Decision Recommendation: After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

Line of Evidence (LOE) for Decision ID 100084, Aluminum

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

LOE ID: 79448

Pollutant: Aluminum
LOE Subgroup: Pollutant-Water
Matrix: Water
Fraction: None

Beneficial Use: Cold Freshwater Habitat

Number of Samples: 2
Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality: State Water Board staff assessed ILRP data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 2 samples exceed the criterion for Aluminum.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: SWAMP

Water Quality Objective/Criterion: Water Quality Control Plan, Central Valley Region Sacramento River Basin and San Joaquin River Basin: All waters shall be maintained free of toxic substances in concentrations that are toxic to, or that produce detrimental physiological responses in human, plant, animal, or aquatic life.

Objective/Criterion Reference: [Water Quality Control Plan for the California Regional Water Quality Control Board Central Valley Region, Sacramento and San Joaquin River Basins. 4th ed](#)

Evaluation Guideline: The National Recommended Water Quality Criteria for the protection of

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

aquatic life is the chronic continuous concentration (expressed as a 4-day average) of 87 ug/L.

Guideline Reference: [National Recommended Water Quality Criteria. United States Environmental Protection Agency. Office of Water. Office of Science and Technology.](#)

Spatial Representation: Data for this line of evidence for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) was collected at 1 monitoring site [Dry Creek at Alta Mesa Road - 511XDCGLT]

Temporal Representation: Data was collected over the time period 5/15/2007-6/20/2007.

Environmental Conditions: Staff is not aware of any special conditions that might affect interpretation of the data.

QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed

QAPP Information Reference(s):

Line of Evidence (LOE) for Decision ID 100084, Aluminum

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

LOE ID: 62862

Pollutant: Aluminum
LOE Subgroup: Pollutant-Water
Matrix: Water
Fraction: None

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 2
Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality: Water Board staff assessed Ag Waiver data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 0 samples exceed the criterion for Aluminum.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: The California secondary maximum contaminant level for aluminum is 0.2 mg/L.

Objective/Criterion Reference: [Secondary Maximum Contaminant Levels and Compliance. CCR Title 22 section 64449.](#)

Evaluation Guideline:
Guideline Reference:

Spatial Representation: Data for this line of evidence for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) was collected at 1 monitoring site [Dry Creek at Alta Mesa Road - 511XDCGLT]

Temporal Representation: Data was collected over the time period 5/15/2007-6/20/2007.

Environmental Conditions: Staff is not aware of any special conditions that might affect interpretation

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

of the data.
 QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.
 QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

DECISION ID 83503

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

Pollutant: Ammonia as N, Total
Final Listing Decision: Do Not List on 303(d) list (TMDL required list)
Last Listing Cycle's Final Listing Decision: Do Not List on 303(d) list (TMDL required list)(2016)
Revision Status: Original
Impairment from Pollutant or Pollution: Pollutant

Regional Board Conclusion: This pollutant is being considered for placement on the CWA section 303(d) List under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence are necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. Zero of six samples exceed the evaluation guideline for COLD .

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the CWA section 303(d) List.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. Zero of six samples exceed the evaluation guideline for COLD and this sample size is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating. A minimum of 16 samples is needed to determine if a beneficial use is fully supported using Table 3.1.
4. Pursuant to Section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

Regional Board Decision Recommendation: After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list. The readily available data and information is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating.

State Board Review of Regional Board Conclusion and Recommendation:

State Board Decision Recommendation: After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

Line of Evidence (LOE) for Decision ID 83503, Ammonia as N, Total**Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

LOE ID: 78990

Pollutant: Ammonia as N, Total
 LOE Subgroup: Pollutant-Water
 Matrix: Water
 Fraction: Total

Beneficial Use: Cold Freshwater Habitat
 Aquatic Life Use: Cold Freshwater Habitat

Number of Samples: 6
 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality: Six water samples collected by the Sacramento Valley Water Quality Coalition from Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) were analyzed for ammonia, pH and temperature. None of the six ammonia results exceeded the calculated ammonia CMC values.

Data Reference: [Data for Various Pollutants for Goose Lake Coalition, 2007-2009.](#)

SWAMP Data:

Water Quality Objective/Criterion: All waters shall be maintained free of toxic substances in concentrations that produce detrimental physiological responses in human, plant, animal, or aquatic life. This objective applies regardless of whether the toxicity is caused by a single substance or the interactive effect of multiple substances.

Objective/Criterion Reference: [Water Quality Control Plan for the California Regional Water Quality Control Board Central Valley Region, Sacramento and San Joaquin River Basins. 4th ed](#)

Evaluation Guideline: Per the National Recommended Water Quality Criteria (USEPA 2006): The 1-hour average concentration (acute criterion or CMC) of total ammonia nitrogen (in mg N/L) for freshwater where salmonid fish are present, which is not to be exceeded more than once every three years on average, is calculated using the following equation:

$$CMC = 0.275 / (1 + 10^{(7.204 - pH)}) + 39.0 / (1 + 10^{(pH - 7.204)})$$

Guideline Reference: [National Recommended Water Quality Criteria. United States Environmental Protection Agency. Office of Water. Office of Science and Technology.](#)

Spatial Representation: Data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) was collected at one monitoring site [Dry Creek at Alta Mesa Road - 511XDCGLT].

Temporal Representation: Ammonia, pH and temperature data were collected intermittently between 2/11/2007 and 12/20/2007

Environmental Conditions:
 QAPP Information:

Data collected under the QAPP for the Sacramento Valley Water Quality

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

Coalition.
 QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

DECISION ID 100085**Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

Pollutant: Arsenic
Final Listing Decision: Do Not List on 303(d) list (TMDL required list)
Last Listing Cycle's Final Listing Decision: Do Not List on 303(d) list (TMDL required list)(2016)
Revision Status: Original
Impairment from Pollutant or Pollution: Pollutant

Regional Board Conclusion: This pollutant is being considered for placement on the CWA section 303(d) List under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence are necessary to assess listing status.

Two lines of evidence are available in the administrative record to assess this pollutant. Zero of six samples exceed the criterion for COLD and one of six samples exceed the criterion for MUN.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the CWA section 303(d) List.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. Zero of six samples exceed the criterion for COLD and one of six samples exceed the criterion for MUN and this sample size is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating. A minimum of 16 samples is needed to determine if a beneficial use is fully supported using table 3.1.
4. Pursuant to Section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

Regional Board Decision Recommendation: After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list. The readily available data and information is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating.

State Board Review of Regional Board Conclusion and Recommendation:

State Board Decision Recommendation: After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

Line of Evidence (LOE) for Decision ID 100085, Arsenic**Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

LOE ID: 62869

Pollutant: Arsenic
 LOE Subgroup: Pollutant-Water
 Matrix: Water
 Fraction: None

Beneficial Use: Cold Freshwater Habitat

Number of Samples: 6
 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING
 Data Used to Assess Water Quality: Water Board staff assessed Ag Waiver data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 6 samples exceed the criterion for Arsenic.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: The dissolved arsenic criterion continuous concentration (expressed as a 4-day average) to protect aquatic life in freshwater for dissolved arsenic is 0.150 mg/L (California Toxics Rule, 2000).

Objective/Criterion Reference: [Code of Federal Regulations 40 part 131.38 Establishment of numeric criteria for priority toxic pollutants for the State of California. 7/1/2011 Edition](#)

Evaluation Guideline:
 Guideline Reference:

Spatial Representation: Data for this line of evidence for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) was collected at 1 monitoring site [Dry Creek at Alta Mesa Road - 511XDCGLT]

Temporal Representation: Data was collected over the time period 2/11/2007-12/20/2007.

Environmental Conditions: Staff is not aware of any special conditions that might affect interpretation of the data.

QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

Line of Evidence (LOE) for Decision ID 100085, Arsenic**Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

LOE ID: 62863

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

Pollutant: Arsenic
 LOE Subgroup: Pollutant-Water
 Matrix: Water
 Fraction: None

 Beneficial Use: Municipal & Domestic Supply

 Number of Samples: 6
 Number of Exceedances: 1

 Data and Information Type: PHYSICAL/CHEMICAL MONITORING
 Data Used to Assess Water Quality: Water Board staff assessed Ag Waiver data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 1 of 6 samples exceed the criterion for Arsenic.
 Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

 SWAMP Data: Non-SWAMP

 Water Quality Objective/Criterion: The California primary maximum contaminant level for arsenic is 0.010 mg/L.
 Objective/Criterion Reference: [Maximum Contaminant Levels for organic and inorganic chemicals. CCR Title 22](#)

 Evaluation Guideline:
 Guideline Reference:

 Spatial Representation: Data for this line of evidence for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) was collected at 1 monitoring site [Dry Creek at Alta Mesa Road - 511XDCGLT]
 Temporal Representation: Data was collected over the time period 2/11/2007-12/20/2007.
 Environmental Conditions: Staff is not aware of any special conditions that might affect interpretation of the data.
 QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.
 QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

DECISION ID 88858

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

Pollutant: Azinphos-methyl (Guthion)
Final Listing Decision: Do Not List on 303(d) list (TMDL required list)
Last Listing Cycle's Final Listing Decision: Do Not List on 303(d) list (TMDL required list)(2016)
Revision Status: Original
Impairment from Pollutant or Pollution: Pollutant

Regional Board Conclusion: This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. Zero of the zero samples exceed the evaluation guideline.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. Zero of the zero samples exceed the evaluation guideline and this sample size is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating. A minimum of 16 samples are needed to determine if a beneficial use is fully supported using table 3.1.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

Regional Board Decision Recommendation: After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list. The readily available data and information is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating.

**State Board Review of
Regional Board
Conclusion and
Recommendation:**

State Board Decision Recommendation: After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**Line of Evidence (LOE) for Decision ID 88858, Azinphos-methyl (Guthion) Region 5
Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

LOE ID: 62872

Pollutant: Azinphos-methyl (Guthion)

LOE Subgroup: Pollutant-Water

Matrix: Water

Fraction: None

Beneficial Use: Cold Freshwater Habitat

Number of Samples: 0

Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality: Water Board staff assessed Ag Waiver data for Dry Creek (Sacramento and

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 0 samples exceed the criterion for Azinphos methyl. Six samples were not used in the assessment because the laboratory data reporting limit(s) was above the objective and therefore the results could not be quantified with the level of certainty required by the Listing Policy.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: No individual pesticide or combination of pesticides shall be present in concentrations that adversely affect beneficial uses. (Water Quality Control Plan, Central Valley Region, Sacramento River Basin and San Joaquin River Basin)

Objective/Criterion Reference: [Water Quality Control Plan for the California Regional Water Quality Control Board Central Valley Region, Sacramento and San Joaquin River Basins, 4th ed](#)

Evaluation Guideline: The National Recommended Water Quality criterion for Azinphos Methyl (Guthion) for the protection of freshwater aquatic life is a maximum of 0.01 ug/l.

Guideline Reference: [National Recommended Water Quality Criteria, United States Environmental Protection Agency, Office of Water, Office of Science and Technology.](#)

Spatial Representation: Data for this line of evidence for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) was collected at 1 monitoring site [Dry Creek at Alta Mesa Road - 511XDCGLT]

Temporal Representation: Data was collected over the time period 2/11/2007-12/20/2007.

Environmental Conditions: Staff is not aware of any special conditions that might affect interpretation of the data.

QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

DECISION ID 88938

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

Pollutant: Benomyl

Final Listing Decision: Do Not List on 303(d) list (TMDL required list)

Last Listing Cycle's Final Listing Decision: Do Not List on 303(d) list (TMDL required list)(2016)

Revision Status

Original

Impairment from

Pollutant

Pollutant or Pollution:

Regional Board

Conclusion:

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this

pollutant. Zero of the six samples exceed the evaluation guideline.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. Zero of the six samples exceed the evaluation guideline and this sample size is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating. A minimum of 16 samples are needed to determine if a beneficial use is fully supported using table 3.1.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

Regional Board Decision Recommendation: After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list. The readily available data and information is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating.

**State Board Review of
Regional Board
Conclusion and
Recommendation:**

State Board Decision Recommendation: After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

Line of Evidence (LOE) for Decision ID 88938, Benomyl

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

LOE ID: 62873

Pollutant: Benomyl
LOE Subgroup: Pollutant-Water
Matrix: Water
Fraction: None

Beneficial Use: Cold Freshwater Habitat

Number of Samples: 6
Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality: The data was assessed using the CDFW-derived aquatic life criterion for Benomyl of 8.8 µg/L (1-hour average); 0 of 6 samples exceed the criterion for Benomyl.

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: No individual pesticide or combination of pesticides shall be present in concentrations that adversely affect beneficial uses. (Water Quality Control Plan, Central Valley Region, Sacramento River Basin and San Joaquin River Basin)

Objective/Criterion Reference: [Water Quality Control Plan for the California Regional Water Quality Control Board Central Valley Region, Sacramento and San Joaquin River Basins. 4th ed](#)

Evaluation Guideline: The California Department of Fish and Wildlife instantaneous criterion (1-hour average) for Benomyl is 8.8 ug/L.

Guideline Reference: [Hazard Assessment of the Fungicides Benomyl, Captan, Chlorothalonil, Maneb, and Ziram to Aquatic Organisms](#)

Spatial Representation: Data for this line of evidence for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) was collected at 1 monitoring site [Dry Creek at Alta Mesa Road - 511XDCGLT]

Temporal Representation: Data was collected over the time period 2/11/2007-12/20/2007.

Environmental Conditions: Staff is not aware of any special conditions that might affect interpretation of the data.

QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

DECISION ID 83189**Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

Pollutant: Boron

Final Listing Decision: Do Not List on 303(d) list (TMDL required list)

Last Listing Cycle's Final Listing Decision: Do Not List on 303(d) list (TMDL required list)(2016)

Revision Status: Original

Impairment from Pollutant or Pollution: Pollutant

Regional Board Conclusion: This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. Zero of six samples exceed the evaluation guideline for AGR.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. Zero of six samples exceed the evaluation guideline for AGR and this sample size is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating. A minimum of 16 samples is needed to determine if a beneficial use is fully supported using table 3.1.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

Regional Board Decision Recommendation: After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list. The readily available data and information is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating.

**State Board Review of
Regional Board
Conclusion and
Recommendation:**

State Board Decision Recommendation: After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

Line of Evidence (LOE) for Decision ID 83189, Boron **Region 5**
Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

LOE ID: 79449

Pollutant: Boron
 LOE Subgroup: Pollutant-Water
 Matrix: Water
 Fraction: None

Beneficial Use: Agricultural Supply

Number of Samples: 6
 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING
 Data Used to Assess Water Quality: State Water Board staff assessed ILRP data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 6 samples exceed the criterion for Boron.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data:

Water Quality Objective/Criterion: Waters shall not contain chemical constituents in concentrations that adversely affect beneficial uses.

Objective/Criterion Reference: [Water Quality Control Plan for the California Regional Water Quality](#)

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtmlControl Board Central Valley Region, Sacramento and San Joaquin River Basins, 4th ed

Evaluation Guideline: Water Quality for Agriculture, published by the Food and Agriculture Organization of the United Nations in 1985, contains criteria protective of various agricultural uses of water, including irrigation of various types of crops and stock watering. At or below the limits presented in the Water Quality Goals tables, agricultural uses of water should not be limited. These criteria were used to translate narrative water quality objectives for chemical constituents that prohibit chemicals in concentrations that would impair agricultural uses of water. The criteria for boron is 700 ug/L (0.7 mg/L).

Guideline Reference: [Water Quality for Agriculture, Food and Agriculture Organization of the United Nations - Irrigation and Drainage Paper No. 29, Rev 1, Rome \(1985\).](#)

Spatial Representation: Data for this line of evidence for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) was collected at 1 monitoring site [Dry Creek at Alta Mesa Road - 511XDCGLT]

Temporal Representation: Data was collected over the time period 2/11/2007-12/20/2007.

Environmental Conditions: Staff is not aware of any special conditions that might affect interpretation of the data.

QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed

QAPP Information Reference(s):

DECISION ID 83244**Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

Pollutant: Cadmium

Final Listing Decision: Do Not List on 303(d) list (TMDL required list)

Last Listing Cycle's Final Listing Decision: Do Not List on 303(d) list (TMDL required list)(2016)

Revision Status Original

Impairment from Pollutant or Pollution: Pollutant

Regional Board Conclusion: This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

Two lines of evidence are available in the administrative record to assess this pollutant. Zero of six samples exceed the water quality objective for MUN and zero of six samples exceed the criteria for COLD.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. Zero of six samples exceeded the water quality objective for MUN and zero of six samples exceed the criteria for COLD and this sample size is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating. A minimum of 16 samples is needed to determine if a beneficial use is fully supported using table 3.1.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

Regional Board Decision Recommendation: After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list. The readily available data and information is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating.

**State Board Review of
Regional Board
Conclusion and
Recommendation:**

State Board Decision Recommendation: After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

Line of Evidence (LOE) for Decision ID 83244, Cadmium

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

LOE ID:	62890
Pollutant:	Cadmium
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	None
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	6
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Water Board staff assessed Ag Waiver data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 0 samples exceed the criterion for Cadmium.
Data Reference:	Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.
SWAMP Data:	Non-SWAMP
Water Quality Objective/Criterion:	The California primary maximum contaminant level for cadmium is 5 ug/L.
Objective/Criterion Reference:	Water Quality Control Plan for the California Regional Water Quality Control Board Central Valley Region, Sacramento and San Joaquin River

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtmlBasins. 4th ed

Evaluation Guideline:

Guideline Reference:

Spatial Representation:

Data for this line of evidence for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) was collected at 1 monitoring site [Dry Creek at Alta Mesa Road - 511XDCGLT]

Temporal Representation:

Data was collected over the time period 2/11/2007-12/20/2007.

Environmental Conditions:

Staff is not aware of any special conditions that might affect interpretation of the data.

QAPP Information:

The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s):

[Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)**Line of Evidence (LOE) for Decision ID 83244, Cadmium****Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

LOE ID:

62891

Pollutant:

Cadmium

LOE Subgroup:

Pollutant-Water

Matrix:

Water

Fraction:

None

Beneficial Use:

Cold Freshwater Habitat

Number of Samples:

6

Number of Exceedances:

0

Data and Information Type:

PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality:

Water Board staff assessed agwaiver data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 6 samples exceed the criterion for Cadmium.

Data Reference:

[Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data:

Non-SWAMP

Water Quality Objective/Criterion:

The California Toxics Rule (CTR) lists criterion continuous concentrations (4-day average) to protect aquatic life in freshwater. The cadmium criterion in freshwater is hardness-dependent for each sample and varies based on the ambient hardness during sampling. Section (b)(1) in CTR contains the hardness dependent formula for the metals criterion.

Objective/Criterion Reference:

[Code of Federal Regulations 40 part 131.38 Establishment of numeric criteria for priority toxic pollutants for the State of California. 7/1/2011 Edition](#)

Evaluation Guideline:

Guideline Reference:

Spatial Representation:

Data for this line of evidence for Dry Creek (Sacramento and San Joaquin

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

Temporal Representation: Counties; partly in Delta Waterways, eastern portion) was collected at 1 monitoring site [Dry Creek at Alta Mesa Road - 511XDCGLT]

Environmental Conditions: Data was collected over the time period 2/11/2007-12/20/2007.

QAPP Information: Staff is not aware of any special conditions that might affect interpretation of the data.

QAPP Information Reference(s): The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

DECISION ID 83295

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

Pollutant: Carbaryl

Final Listing Decision: Do Not List on 303(d) list (TMDL required list)

Last Listing Cycle's Final Listing Decision: Do Not List on 303(d) list (TMDL required list)(2016)

Revision Status Original

Impairment from Pollutant or Pollution: Pollutant

Regional Board Conclusion: This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. Zero of six samples exceed the evaluation guideline for COLD.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. Zero of six samples exceed the evaluation guideline for COLD and this sample size is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating. A minimum of 16 samples is needed to determine if a beneficial use is fully supported using table 3.1.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

Regional Board Decision Recommendation: After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list. The readily available data and information is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating.

State Board Review of Regional Board

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml**Conclusion and Recommendation:**

State Board Decision Recommendation: After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

Line of Evidence (LOE) for Decision ID 83295, Carbaryl **Region 5**
Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

LOE ID: 62892

Pollutant: Carbaryl
 LOE Subgroup: Pollutant-Water
 Matrix: Water
 Fraction: None

Beneficial Use: Cold Freshwater Habitat

Number of Samples: 6
 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING
 Data Used to Assess Water Quality: Water Board staff assessed Ag Waiver data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 6 samples exceed the criterion for Carbaryl.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: No individual pesticide or combination of pesticides shall be present in concentrations that adversely affect beneficial uses. (Water Quality Control Plan, Central Valley Region, Sacramento River Basin and San Joaquin River Basin)

Objective/Criterion Reference: [Water Quality Control Plan for the California Regional Water Quality Control Board Central Valley Region, Sacramento and San Joaquin River Basins, 4th ed](#)

Evaluation Guideline: The USEPA recommended water quality criterion for freshwater aquatic life for carbaryl is 2.1 µg/L.

Guideline Reference: [National Recommended Water Quality Criteria. United States Environmental Protection Agency. Office of Water. Office of Science and Technology.](#)

Spatial Representation: Data for this line of evidence for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) was collected at 1 monitoring site [Dry Creek at Alta Mesa Road - 511XDCGLT]

Temporal Representation: Data was collected over the time period 2/11/2007-12/20/2007.

Environmental Conditions: Staff is not aware of any special conditions that might affect interpretation of the data.

QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

DECISION ID 88940

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

Pollutant: Carbofuran
Final Listing Decision: Do Not List on 303(d) list (TMDL required list)
Last Listing Cycle's Final Listing Decision: Do Not List on 303(d) list (TMDL required list)(2016)
Revision Status: Original
Impairment from Pollutant or Pollution: Pollutant

Regional Board Conclusion: This pollutant is being considered for placement on the CWA section 303(d) List under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

Two lines of evidence are available in the administrative record to assess this pollutant. Zero of the six samples exceed the water quality criteria for MUN, and zero of the six samples exceed the evaluation guideline for COLD.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the CWA section 303(d) List.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. Zero of the six samples exceed the water quality criteria for MUN, and zero of the six samples exceed the evaluation guideline for COLD and this sample size is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating. A minimum of 16 samples are needed to determine if a beneficial use is fully supported using table 3.1.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

Regional Board Decision Recommendation: After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list. The readily available data and information is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating.

State Board Review of Regional Board Conclusion and Recommendation:

State Board Decision Recommendation: After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml**Line of Evidence (LOE) for Decision ID 88940, Carbofuran****Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

LOE ID: 62899

Pollutant: Carbofuran
 LOE Subgroup: Pollutant-Water
 Matrix: Water
 Fraction: None

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 6
 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality: Water Board staff assessed Ag Waiver data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 6 samples exceed the criterion for Carbofuran.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: The California primary maximum contaminant level for Carbofuran is 18 ug/L.

Objective/Criterion Reference: [Maximum Contaminant Levels for organic and inorganic chemicals. CCR Title 22](#)

Evaluation Guideline:
 Guideline Reference:

Spatial Representation: Data for this line of evidence for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) was collected at 1 monitoring site [Dry Creek at Alta Mesa Road - 511XDCGLT]

Temporal Representation: Data was collected over the time period 2/11/2007-12/20/2007.

Environmental Conditions: Staff is not aware of any special conditions that might affect interpretation of the data.

QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

Line of Evidence (LOE) for Decision ID 88940, Carbofuran**Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

LOE ID: 62893

Pollutant: Carbofuran
 LOE Subgroup: Pollutant-Water
 Matrix: Water

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

Fraction: None

Beneficial Use: Cold Freshwater Habitat

Number of Samples: 6

Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality: Water Board staff assessed Ag Waiver data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 6 samples exceed the criterion for Carbofuran.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: No individual pesticide or combination of pesticides shall be present in concentrations that adversely affect beneficial uses. (Water Quality Control Plan, Central Valley Region, Sacramento River Basin and San Joaquin River Basin)

Objective/Criterion Reference: [Water Quality Control Plan for the California Regional Water Quality Control Board Central Valley Region, Sacramento and San Joaquin River Basins, 4th ed](#)

Evaluation Guideline: The freshwater criterion maximum concentration for carbofuran is 0.5 µg/L (DFG 92-3, 1992).

Guideline Reference: [Hazard Assessment of the Insecticide Carbofuran to Aquatic Organisms in the Sacramento River System](#)

Spatial Representation: Data for this line of evidence for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) was collected at 1 monitoring site [Dry Creek at Alta Mesa Road - 511XDCGLT]

Temporal Representation: Data was collected over the time period 2/11/2007-12/20/2007.

Environmental Conditions: Staff is not aware of any special conditions that might affect interpretation of the data.

QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

DECISION ID 83350

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

Pollutant: Chlorpyrifos

Final Listing Decision: Do Not List on 303(d) list (TMDL required list)

Last Listing Cycle's Final Listing Decision: Do Not List on 303(d) list (TMDL required list)(2016)

Revision Status: Original

Impairment from Pollutant or Pollution: Pollutant

Regional Board This pollutant is being considered for placement on the section 303(d) list under

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

Conclusion: section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. Zero of six samples exceed the evaluation guideline for COLD.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. Zero of six samples exceed the evaluation guideline for COLD and this sample size is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating. A minimum of 16 samples is needed to determine if a beneficial use is fully supported using table 3.1.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

Regional Board Decision Recommendation: After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list. The readily available data and information is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating.

**State Board Review of
Regional Board
Conclusion and
Recommendation:**

State Board Decision Recommendation: After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

Line of Evidence (LOE) for Decision ID 83350, Chlorpyrifos

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

LOE ID: 62900

Pollutant: Chlorpyrifos

LOE Subgroup: Pollutant-Water

Matrix: Water

Fraction: None

Beneficial Use: Cold Freshwater Habitat

Number of Samples: 6

Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

Data Used to Assess Water Quality: Water Board staff assessed Ag Waiver data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 6 samples exceed the criterion for Chlorpyrifos.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: No individual pesticide or combination of pesticides shall be present in concentrations that adversely affect beneficial uses. (Water Quality Control Plan, Central Valley Region, Sacramento River Basin and San Joaquin River Basin)

Objective/Criterion Reference: [Water Quality Control Plan for the California Regional Water Quality Control Board Central Valley Region, Sacramento and San Joaquin River Basins, 4th ed](#)

Evaluation Guideline: The freshwater criterion continuous concentration to protect aquatic organisms is 0.015 ug/L (Siepmann and Finlayson 2000).

Guideline Reference: [Water quality criteria for diazinon and chlorpyrifos. Administrative Report 00-3. Rancho Cordova, CA: Pesticide Investigations Unit, Office of Spills and Response. CA Department of Fish and Game \(with minor corrections to significant figures as described in Beaulaurier et al., 2005\).](#)

Spatial Representation: Data for this line of evidence for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) was collected at 1 monitoring site [Dry Creek at Alta Mesa Road - 511XDCGLT]

Temporal Representation: Data was collected over the time period 2/11/2007-12/20/2007.

Environmental Conditions: Staff is not aware of any special conditions that might affect interpretation of the data.

QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

DECISION ID 83407

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

Pollutant: Chromium

Final Listing Decision: Do Not List on 303(d) list (TMDL required list)

Last Listing Cycle's Final Listing Decision: Do Not List on 303(d) list (TMDL required list)(2016)

Revision Status

Original

Impairment from

Pollutant

Pollutant or Pollution:

Regional Board

Conclusion:

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. Zero of three samples exceed the criteria for COLD.

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. Zero of three samples exceed the criteria for COLD and this sample size is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating. A minimum of 16 samples is needed to determine if a beneficial use is fully supported using table 3.1.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

Regional Board Decision Recommendation: After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list. The readily available data and information is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating.

**State Board Review of
Regional Board
Conclusion and
Recommendation:**

State Board Decision Recommendation: After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

Line of Evidence (LOE) for Decision ID 83407, Chromium

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

LOE ID: 62901

Pollutant: Chromium
LOE Subgroup: Pollutant-Water
Matrix: Water
Fraction: None

Beneficial Use: Cold Freshwater Habitat

Number of Samples: 3
Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality: Water Board staff assessed agwaiver data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 3 samples exceed the criterion for Chromium.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: The California Toxics Rule (CTR) lists criterion continuous concentrations (4-day average) to protect aquatic life in freshwater. The chromium criterion in freshwater is hardness-dependent for each sample and varies based on the ambient hardness during sampling. Section (b)(1) in CTR contains the hardness-dependent formula for metals criteria.

Objective/Criterion Reference: [Code of Federal Regulations 40 part 131.38 Establishment of numeric criteria for priority toxic pollutants for the State of California. 7/1/2011 Edition](#)

Evaluation Guideline:
Guideline Reference:

Spatial Representation: Data for this line of evidence for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) was collected at 1 monitoring site [Dry Creek at Alta Mesa Road - 511XDCGLT]

Temporal Representation: Data was collected over the time period 4/17/2007-6/20/2007.

Environmental Conditions: Staff is not aware of any special conditions that might affect interpretation of the data.

QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

DECISION ID 83460

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

Pollutant: Copper

Final Listing Decision: Do Not List on 303(d) list (TMDL required list)

Last Listing Cycle's Final Listing Decision: Do Not List on 303(d) list (TMDL required list)(2016)

Revision Status Original

Impairment from Pollutant or Pollution: Pollutant

Regional Board Conclusion: This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

Two lines of evidence are available in the administrative record to assess this pollutant. Zero of six samples exceed the criteria for MUN and zero of six samples exceed the criteria for COLD.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.

3. Zero of six samples exceeded the criteria for MUN and zero of six samples exceed the criteria for COLD and this sample size is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating. A minimum of 16 samples is needed to determine if a beneficial use is fully supported using table 3.1.

4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

Regional Board Decision Recommendation: After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list. The readily available data and information is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating.

**State Board Review of
Regional Board
Conclusion and
Recommendation:**

State Board Decision Recommendation: After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

Line of Evidence (LOE) for Decision ID 83460, Copper

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

LOE ID: 62903

Pollutant: Copper
LOE Subgroup: Pollutant-Water
Matrix: Water
Fraction: None

Beneficial Use: Cold Freshwater Habitat

Number of Samples: 6
Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality: Water Board staff assessed agwaiver data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 6 samples exceed the criterion for Copper.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: The California Toxics Rule (CTR) lists criterion continuous concentrations (4-day average) to protect aquatic life in freshwater. The chromium criterion in freshwater is hardness-dependent for each sample and varies

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

based on the ambient hardness during sampling. Section (b)(1) in CTR contains the hardness-dependent formula for metals criteria.

Objective/Criterion Reference: [Code of Federal Regulations 40 part 131.38 Establishment of numeric criteria for priority toxic pollutants for the State of California. 7/1/2011 Edition](#)

Evaluation Guideline:
Guideline Reference:

Spatial Representation: Data for this line of evidence for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) was collected at 1 monitoring site [Dry Creek at Alta Mesa Road - 511XDCGLT]

Temporal Representation: Data was collected over the time period 2/11/2007-12/20/2007.

Environmental Conditions: Staff is not aware of any special conditions that might affect interpretation of the data.

QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

Line of Evidence (LOE) for Decision ID 83460, Copper**Region 5****Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)**

LOE ID: 62902

Pollutant: Copper

LOE Subgroup: Pollutant-Water

Matrix: Water

Fraction: None

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 6

Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality: Water Board staff assessed Ag Waiver data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 6 samples exceed the criterion for Copper.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: The California secondary maximum contaminant level for copper is 1.0 mg/L.

Objective/Criterion Reference: [Secondary Maximum Contaminant Levels and Compliance. CCR Title 22 section 64449.](#)

Evaluation Guideline:
Guideline Reference:

Spatial Representation: Data for this line of evidence for Dry Creek (Sacramento and San Joaquin

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

Counties; partly in Delta Waterways, eastern portion) was collected at 1 monitoring site [Dry Creek at Alta Mesa Road - 511XDCGLT]

Temporal Representation: Data was collected over the time period 2/11/2007-12/20/2007.

Environmental Conditions: Staff is not aware of any special conditions that might affect interpretation of the data.

QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition.](#)

DECISION ID 89017

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

Pollutant: Cyanazine

Final Listing Decision: Do Not List on 303(d) list (TMDL required list)

Last Listing Cycle's Final Listing Decision: Do Not List on 303(d) list (TMDL required list)(2016)

Revision Status Original

Impairment from Pollutant or Pollution: Pollutant

Regional Board Conclusion: This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. Zero of the six samples exceed the evaluation guideline.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. Zero of the six samples exceed the evaluation guideline and this sample size is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating. A minimum of 16 samples are needed to determine if a beneficial use is fully supported using table 3.1.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

Regional Board Decision Recommendation: After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list. The readily available data and information is insufficient to determine, with the power and confidence of the Listing Policy, the applicable beneficial use support rating.

State Board Review of

8/1/22, 2:24 PM

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2020_2022state_ir_reports_revised_final/apx-b/02099.shtml

**Regional Board
Conclusion and
Recommendation:**

State Board Decision Recommendation: After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

Line of Evidence (LOE) for Decision ID 89017, Cyanazine

Region 5

Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion)

LOE ID: 62748

Pollutant: Cyanazine
LOE Subgroup: Pollutant-Water
Matrix: Water
Fraction: None

Beneficial Use: Cold Freshwater Habitat

Number of Samples: 6
Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality: Water Board staff assessed Ag Waiver data for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) to determine beneficial use support and results are as follows: 0 of 6 samples exceed the criterion for Cyanazine.

Data Reference: [Data for Various Pollutants in Sacramento Valley Water Quality Coalition, 2005-2009.](#)

SWAMP Data: Non-SWAMP

Water Quality Objective/Criterion: No individual pesticide or combination of pesticides shall be present in concentrations that adversely affect beneficial uses. (Water Quality Control Plan, Central Valley Region, Sacramento River Basin and San Joaquin River Basin)

Objective/Criterion Reference: [Water Quality Control Plan for the California Regional Water Quality Control Board Central Valley Region, Sacramento and San Joaquin River Basins, 4th ed](#)

Evaluation Guideline: The EC50 for *Navicula pelliculosa* (freshwater diatom) for cyanazine is 4.8 ug/L (USEPA Office of Pesticide Programs Ecotoxicity database).

Guideline Reference: [OPP Pesticide Ecotoxicity Database.](#)

Spatial Representation: Data for this line of evidence for Dry Creek (Sacramento and San Joaquin Counties; partly in Delta Waterways, eastern portion) was collected at 1 monitoring site [Dry Creek at Alta Mesa Road - 511XDCGLT]

Temporal Representation: Data was collected over the time period 2/11/2007-12/20/2007.

Environmental Conditions: Staff is not aware of any special conditions that might affect interpretation of the data.

QAPP Information: The Quality Assurance Project Plan for Sacramento Valley Water Quality Coalition was followed.

QAPP Information Reference(s): [Quality Assurance Project Plan for Sacramento Valley Water Quality](#)